OWNER'S MANUAL

Palsonic

76CM WIDE SCREEN HDTV READY
MODEL: 76WSHD

Type Tested
Electrical
Safety
AS/NZS 3250 Lic 4166
Standards Australia
APP No: N18748

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Contents

Congratulations on your purchase of Palsonic's HDTV ready.
We recommend that you thoroughly read this manual before use to fully enjoy the many functions and excellent effects of this equipment. Retain this manual in an easily accessible location for future reference.
* Screen displays and illustrations in this manual may differ from the actual ones for better visibility.

Contents

1. Cautions for safety

(!) Note: This set can be operated on an AC power of 240V, 50Hz. You must not use a power supply of any other type.

◇ *When any unusual situation occurs, turn off the power supply at once and remove the plug from the wall outlet. Contact a qualified service department in your local area.*
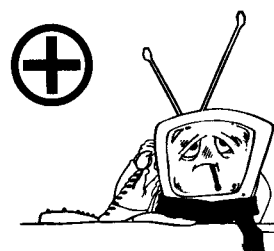
◇ *Do not expose the TV set to rain or excessive moisture. Avoid using the set in very warm or damp places and never use it in a bathroom.*
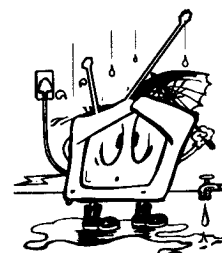
◇ *When cleaning dust off the picture tube disconnect the power first. You can wipe lightly with a piece of dry, clean and soft cloth.*
Normally, the screen surface should not be cleaned; however, if it is essential, clean the surface with a soft, dry cloth while the TV is turned off. Never use any detergent cleaners to clean the surface. The screen surface may be scratched if a hard cloth is used
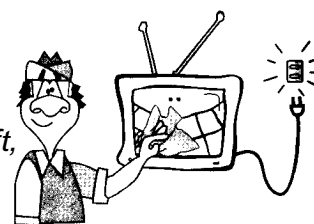
◇ *Avoid exposing the set to direct sunlight and other sources of heat to prevent damage to the cabinet and components.*
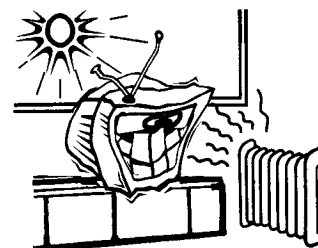
◇ *High voltage exists in this TV set. Do not remove the cover.*
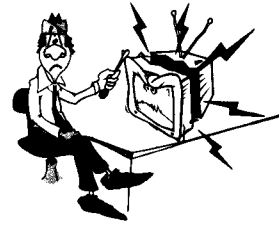
◇ *Do not cover the ventilating hole in the cabinet*
Keep a space of more than 5 cm from the walls to the TV set to ensure adequate ventilation.
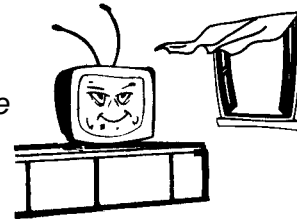
◇ *If the power cord or the plug is damaged contact a qualified service department for service.*
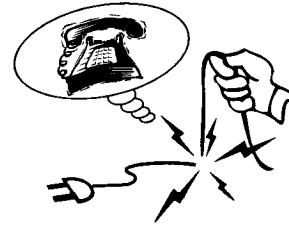
◇ *When the TV set is to be left unattended for a long period of time, turn off the power supply and remove the plug from the wall outlet.*
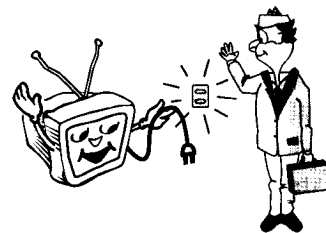
◇ *Don't try to push anything into the cabinet or place any vessel with water on the TV set.*
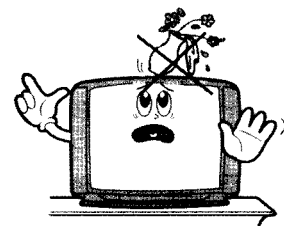
◇ *Don't overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.*

2. Location of controls

REMOTE SENSOR
INDICATOR
INDICATOR
POWER SWITCH
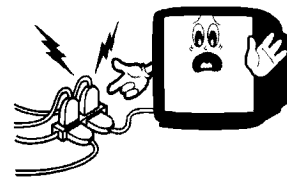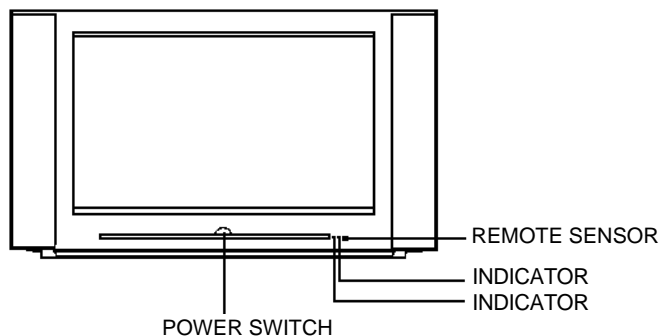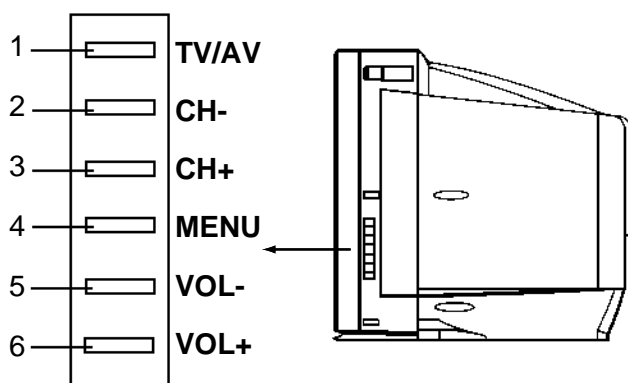
1 — TV/AV
2 — CH-
3 — CH+
4 — MENU
5 — VOL-
6 — VOL+

1. **TV/AV** button: Open the signal source selection menu.
2. **CH-** button: Select a lower position number.
3. **CH+** button: Select a higher position number.
4. **MENU** button: Enter into the menu.
5. **VOL-** button: Lower the volume
6. **VOL+** button: raise the volume.

S-VIDEO
VIDEO
L/MONO
R
AV3 IN

⌒ : Headphone jack
AV3 input terminals
{S-VIDEO, VIDEO,
AUDIO L/MONO, R}
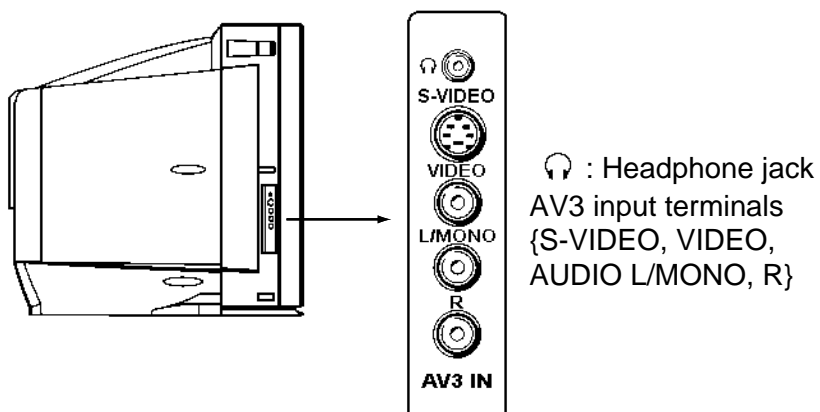
2.3 Back View
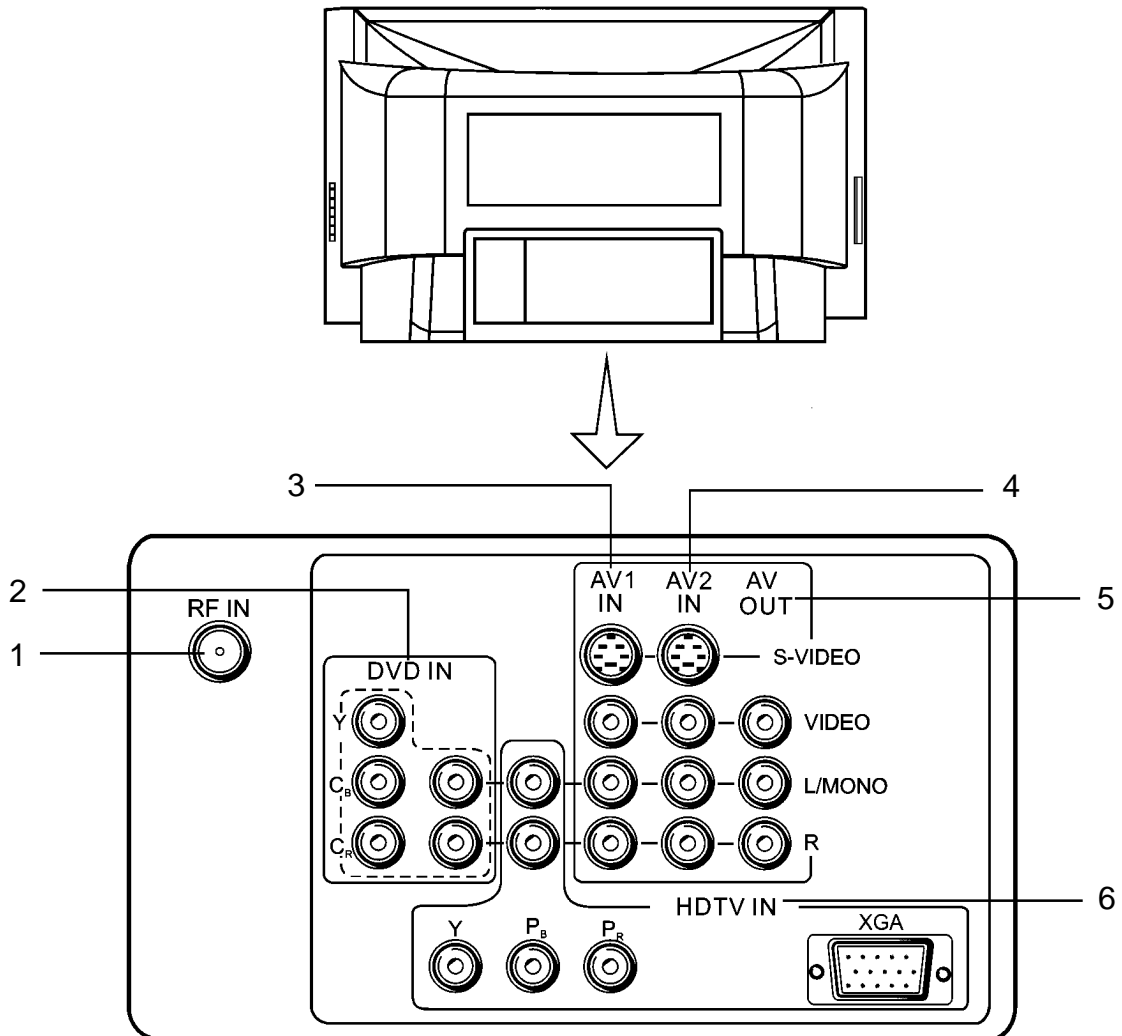
1. Antenna input

2. DVD input terminals { VIDEO: Y, C_B, C_R, AUDIO: L/MONO, R}

3. AV1 input terminals { S-VIDEO, VIDEO, AUDIO: L/MONO, R}

4. AV2 input terminals { S-VIDEO, VIDEO, AUDIO: L/MONO, R}

5. AV output terminals {VIDEO, AUDIO: L/MONO, R}

6. HDTV input {Y, P_B, P_R, XGA, AUDIO: L/MONO, R}
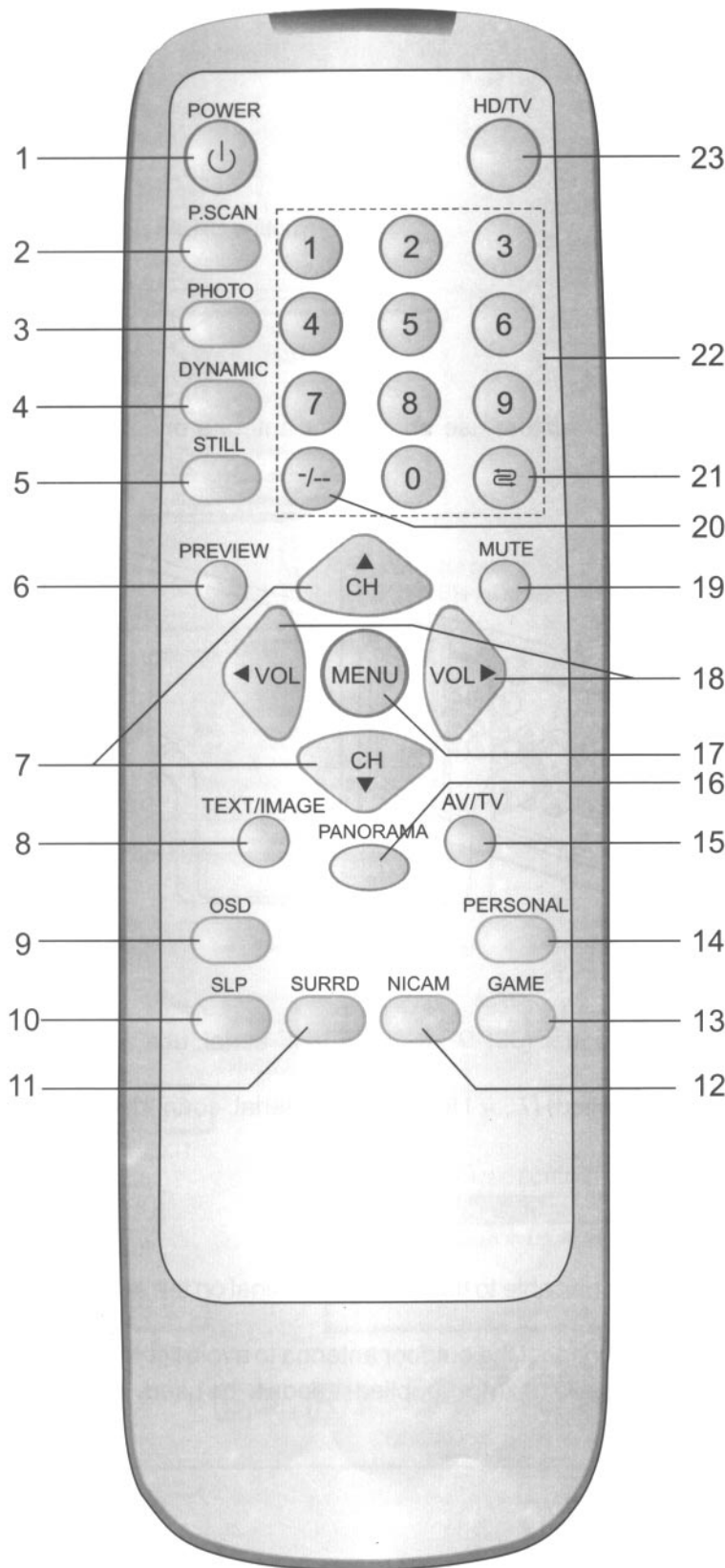
2.4 Remote Controller

Button function:

1. Power on/standby
2. Scan mode selection
3. To caption moving
   into 4 successive frozen
   frames
4. STATIC/MOVING picture
   mode selection
5. Still the current picture
6. Channel preview
7. Channel up/down
   In menu operation used to
   move the cursor upward or
   downward.
8. Text /image mode
   switch over
9. Retain on-screen display
10. Sleep timer
11. Surround sound control
12. NICAM/FORCE FM sound
    decoder selection
13. Play game
14. Selectable picture
15. Open the signal source
    selection menu
16. Screen aspect ratio
    selection
17. Open/close the menu
18. Volume up/down
    In menu operation used to
    move the cursor leftward /
    rightward, adjust menu
    item, or enter into the
    next level menu
19. Sound mute
20. One digit/two digit/three
    digit channel selector
21. Previous channel
22. Direct channel selector
23. HDTV/TV

3. Installation

3.1 Antenna Connection

To ensure a bright-coloured and clear picture use an outdoor antenna or CATV cable.
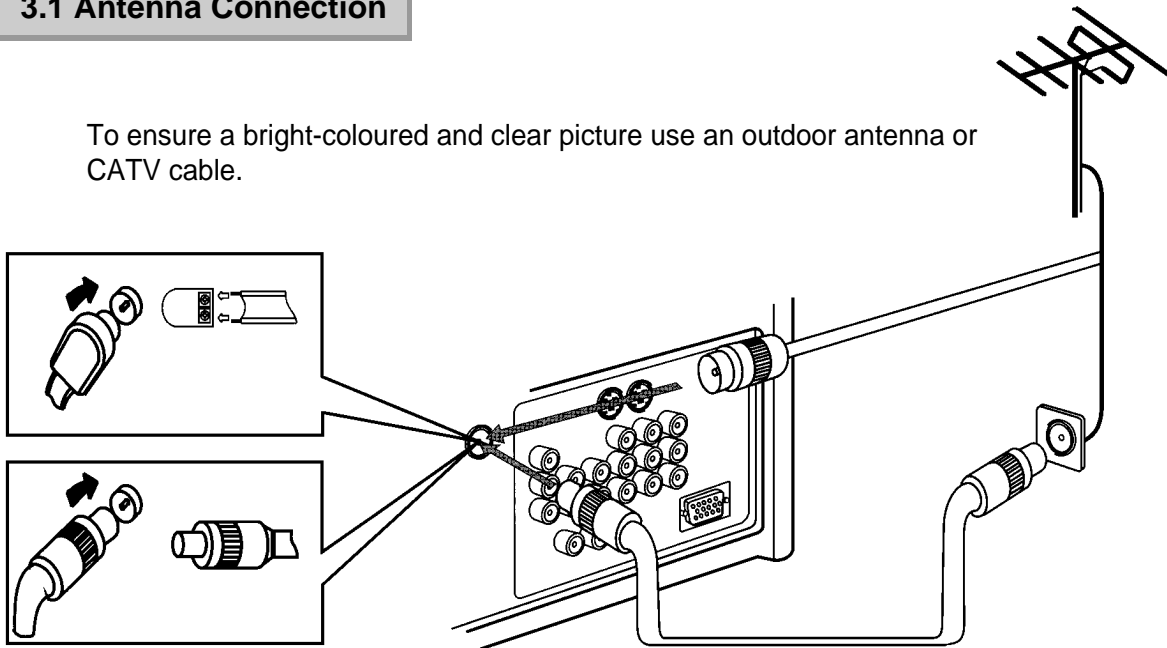
Note:
In case of using the Twin-lead aerial feeder (300Ω) for UHF/VHF aerial, use a 300-75 ohm adaptor (not supplied).
When using the coaxial cable (not supplied) (75Ω) for UHF/VHF aerial, connect the plug into the 75 ohm aerial socket directly.

Note:
1. When you connect the outdoor antenna cable to the antenna terminal on the set, turn off the power supply to the set first.
2. In thunder and lightning weather, disconnect the outdoor antenna to avoid lightning strike.
3. When receiving CATV programs, a cable box (not supplied) needs to be used.

3.2 Battery installation

| **1** Open the battery compartment cover. | **2** Install two "AAA" batteries paying attention to the polarity diagram in the battery compartment. | **3** Replace the battery compartment cover. |
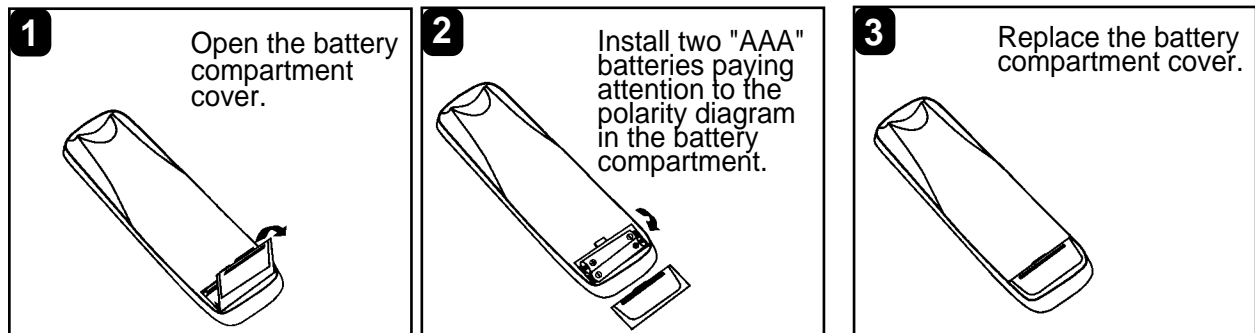
BATTERY PRECAUTIONS

Follow these precautions when using batteries in this device:

1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

3.3 EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER

(!) NOTES:

* When there is an obstacle between the TV and the transmitter, the transmitter may not operate.

* When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the REMOTE SENSOR of the TV, the remote operation may be unstable.

30^0 30^0

5m
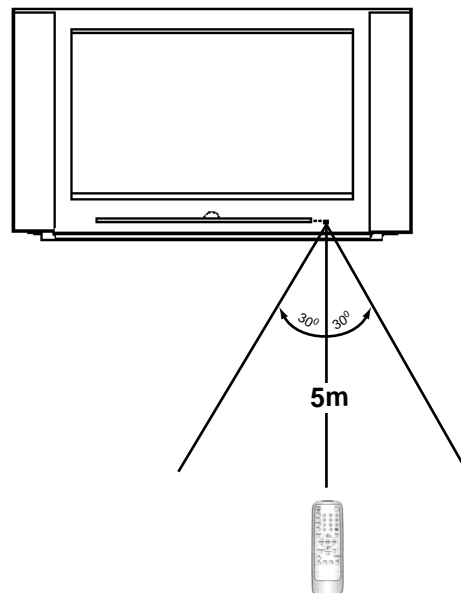
FAQs

Why is the remote not working properly?

* The remote control is not aimed at the sensor.
* Distance is too far away from the remote sensor
* There is too much light in the room.
* There is an obstacle in the path of the beam.
* The batteries are weak or dead.
* The batteries are inserted incorrectly.

3.4 External Equipment connections

(Please refer to the owner's manual of the equipment to be connected as well.)

3.4.1 To connect AV input terminals

You can connect video equipments such as a VTR and video camera to this TV and enjoy the high quality picture and sound.

If your video equipment has a S-VIDEO output terminal, connect it to the S-VIDEO input terminal (special S-VIDEO type) of the unit. If not, connect it to the VIDEO terminal (phono type).

Ⓨ : Yellow (video)
Ⓦ : White (audio L/MONO)
Ⓡ : Red (audio R)
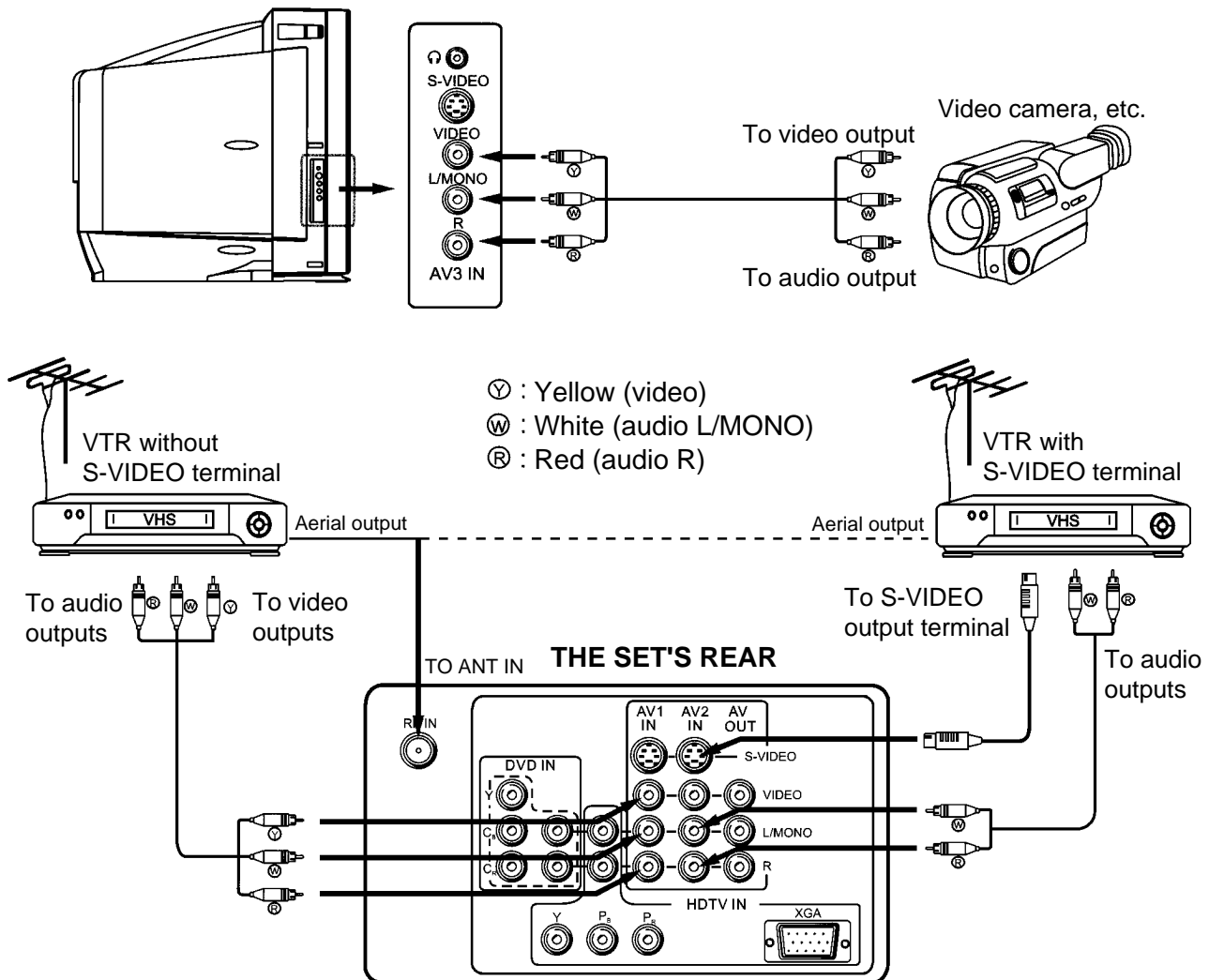
To select the input, press **AV/TV** button to display the signal source selection menu and press the **CH▲** or **CH ▼** button to select the corresponding input mode (VIDEO 1 or VIDEO 2 or VIDEO 3) and press **VOL ▶** button to confirm.

Note on the S-VIDEO terminal

The S-VIDEO input terminal has priority over the AV1, AV2 VIDEO terminals on the rear and the AV3 VIDEO terminal on the side. To use equipment connected to the video terminals, disconnect any plug from the S-VIDEO terminal.

3.4.2 To connect DVD input terminals

The figure below shows how to connect the DVD input terminals of the TV set to the DVD Player, Laser Disk Player, etc.

DVD Player, Laser Disk Player etc.

:Direction of the signal
Ⓦ:White (audio L/MONO)
Ⓡ:Red (audio R, C$_R$)
Ⓖ:Green (Y)
Ⓑ:Blue (C$_B$)

COMPONENT VIDEO OUTPUT   AUDIO OUTPUT

Ⓖ Ⓑ Ⓡ   Ⓦ Ⓡ

Y C$_B$ C$_R$ L/MONO R

Signals

THE SET'S REAR

RF

DVD IN

AV1 IN AV2 IN AV OUT
S-VIDEO
VIDEO
L/MONO
R

HDTV IN   XGA
Y P$_B$ P$_R$
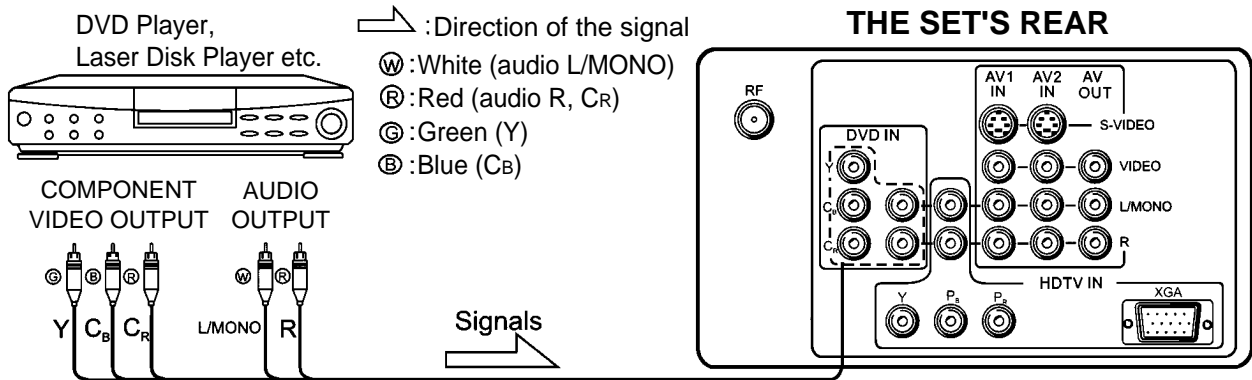
Press **AV/TV** button to display the signal source selection menu and select **YCbCr** mode. The picture shown on the screen is the program from the DVD Player.

(!) **Note:** Both the component video Cr terminal and the audio R terminal are red for easy identification. Make sure these are correctly connected.

3.4.3 To connect AV output terminals

You can connect a stereo system to the audio output terminals (phono type) on the set to enjoy a high-quality sound from the stereo system. You can also connect AV output terminals to VTR to record programs being displayed on the screen. (Note: Only when the signal source is input through RF or AV1 IN or AV2 IN or AV3 IN, there is signal for AV OUT terminals to output.)

THE SET'S REAR

To external input

RF

DVD IN
Y
C$_B$
C$_R$

AV1 IN AV2 IN AV OUT
S-VIDEO
VIDEO
L/MONO
R

HDTV IN   XGA
Y P$_B$ P$_R$

Stereo System

Ⓨ : Yellow (video)
Ⓦ : White (audio L/MONO)
Ⓡ : Red (audio R)

To audio input

VHS

(Another VTR for recording)

To video input
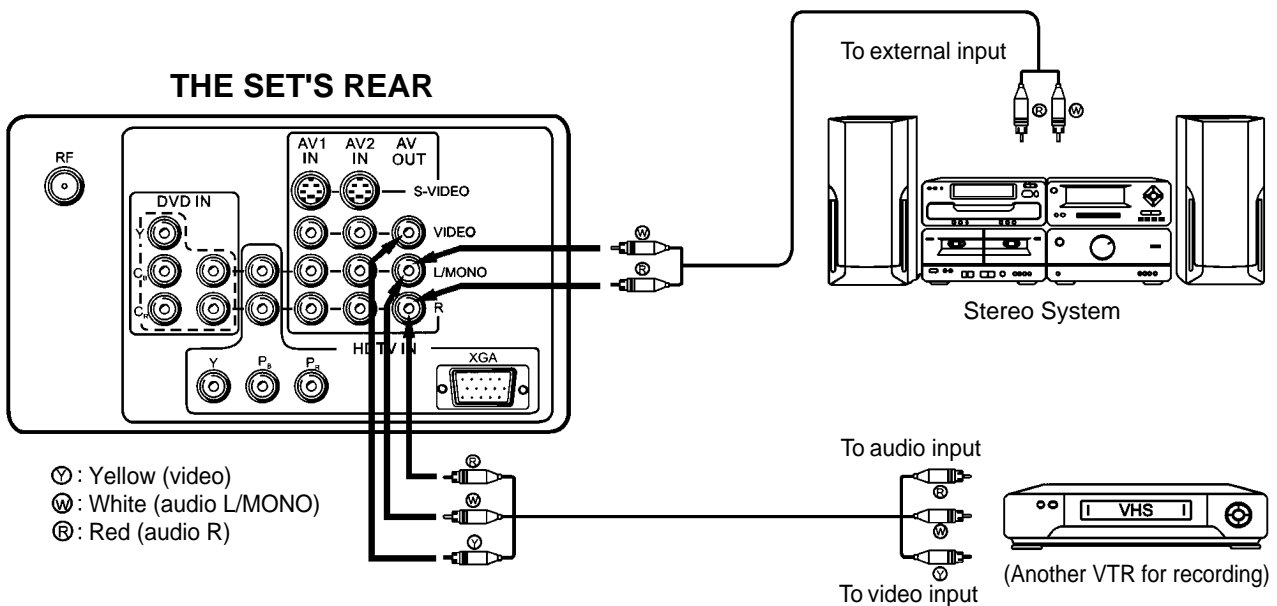
3.4.4 To connect XGA input interface

The figure below shows how to connect the set to the computer through XGA interface.
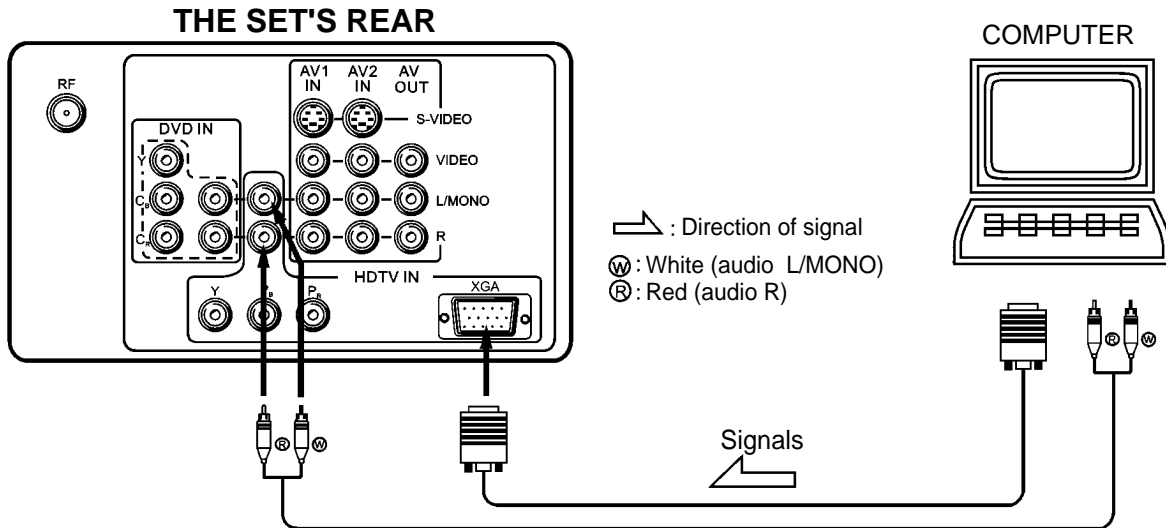
Press **AV/TV** button to display the signal source selection menu and select **HDTV-XGA** mode. At this time the screen will display information from the computer.

3.4.5 To connect HDTV set top box

If your HDTV set top box is incorporated with YPbPr terminals, connect the set top box to the TV set through the YPbPr terminals, connect audio lines from set top box to HDTV IN L/R sound inputs, note that L to L and R to R.
(If your set top box is incorporated with XGA interface, please connect according to "To connect XGA input interface" which is shown above.)
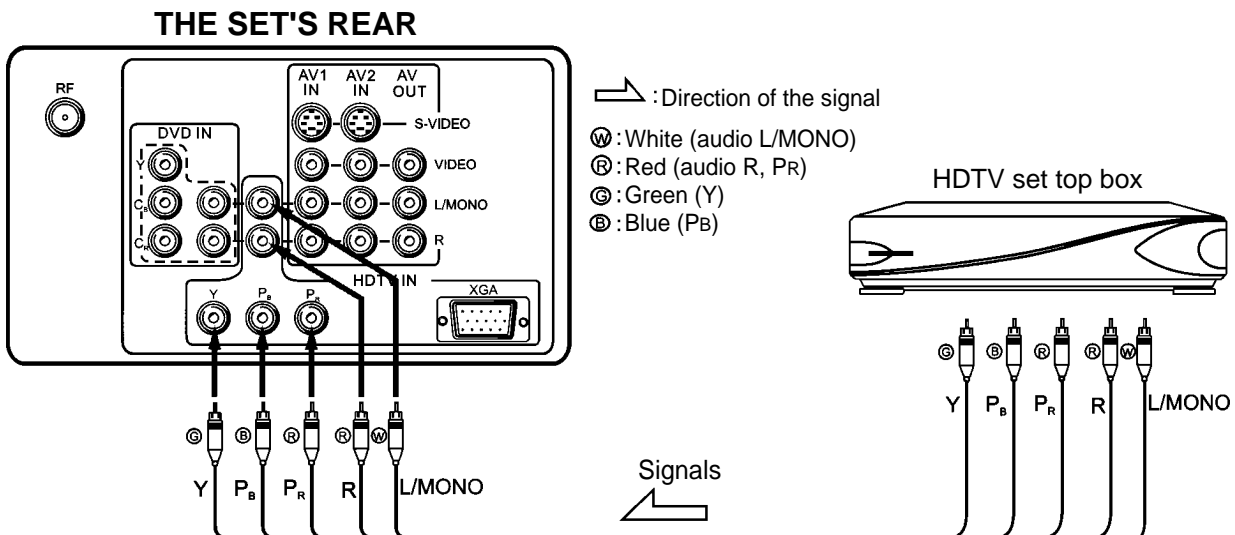
Press **AV/TV** button to display the signal source selection menu and then select **YPbPr** mode. Now you can view programs playbacked by the set top box.

4. Switching on/off

1) Press the main **POWER SWITCH** (1) the
   red power indicator lights up, the set is in
   standby mode.
2) Press the **POWER** button (2) on the remote
   controller to turn on the set, and the power
   indicator turns to yellow. Or you can directly
   press **CH+ / CH-** button on the set to turn
   on the set.
3) To turn off the set completely, press the
   main **POWER SWITCH** (1).
4) To turn off the set temporarily, press the
   POWER button (2) the set is in standby
   mode, the indicator turns to red.
5) When the remote operation is received by the set, the TIMER indicator (green) on the
   set's front will glitter to inform the user.

(2)

(1)
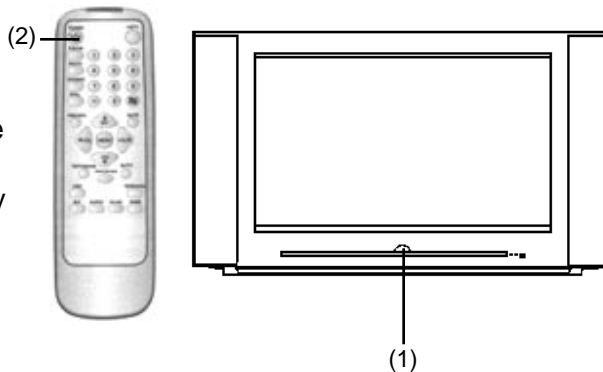
(!) The buttons in this manual refer to the ones on the remote controller if without special
indication.

5. Signal source selection

1) Press the **AV/TV** button (1) to display
signal source selection menu.
2) Press the **CH▲** or **CH▼** button (2) to
select one of RF / VIDEO1 VIDEO2/
3) VIDEO3 / YCbCr / HDTV-XGA / YPbPr.
Press **◀ VOL** or **VOL ▶** button (3) to
confirm your choice.

(3) (2)
(2) (1)

RF
VIDEO1
VIDEO2
VIDEO3
YCbCr
⇒ HDTV-XGA
YPbPr

Enhanced
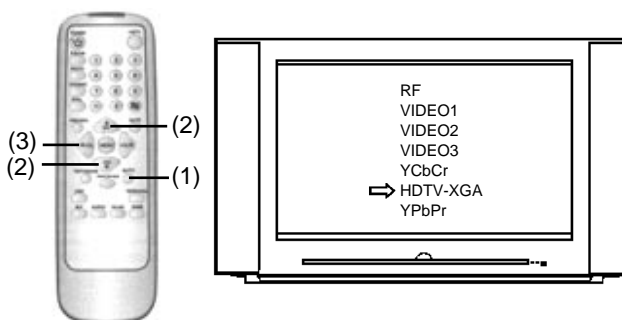
6. Brief menu operation and introduction

Press MENU button

Press VOL▶ button

Press VOL▲ button

Press VOL▲ button

Press VOL▼ button

Press VOL▼ button

Press CH▲ button or MENU button

Press CH▲ button or MENU button

Press CH▲ button

Press C

Press CH▲ button or MENU button

Press CH▼ button

Press CH▲ button or MENU button

Press CH▼ button

CONTRAST 7 0
BRIGHT 5 0
COLOR 5 0
PEAKING 0 2
MATRIX NORM

CONTRAST 7 0
BRIGHT 5 0
COLOR 5 0
PEAKING 0 2
MATRIX NORM
PICTURE

SYSTEM AUTO
SOUND 6.5MHz
AUTOTUNE - - -
SEARCH 186MHz
AFC √
PRESET

SYSTEM AUTO
SOUND 6.5MHz
AUTOTUNE - - -
SEARCH 186MHz
AFC √
AUTO PAL NTSC ...

ENGLISH ⇨ 中文
AUTO OFF √
ROTATE 0 0
WIDE 1 6 ; 9
DEGAUSS
OPTION

ENGLISH ⇨ 中文
AUTO OFF √
ROTATE 0 0
WIDE 1 6 ; 9
DEGAUSS
ENGLISH ⇦⇨ 中文

Note: In menu operation, pressing MENU button or waiting for 15 seconds can exit the menu.
For more details refer to the following pages.

TV Operation (RF mode)

The icon is selected

Cursor

Hints

BASS 0 3
TREBLE 0 2
BALANCE 0 0
SURROUND HIGH
LOUDNESS √
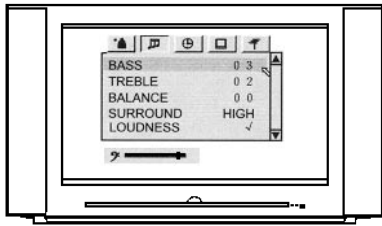
The PICTURE menu includes the following items: Contrast, Bright, Colour, Peaking ,Tint Matrix, CTI, COMB, DNR, SVM

CONTRAST 7 0
BRIGHT 5 0
COLOR 5 0
PEAKING 0 2
MATRIX NORM
PICTURE

Press CH▲ button or MENU button

Press CH▼ button

Press VOL▲ button

Press VOL◄ button

BASS 0 3
TREBLE 0 2
BALANCE 0 0
SURROUND HIGH
LOUDNESS √
SOUND
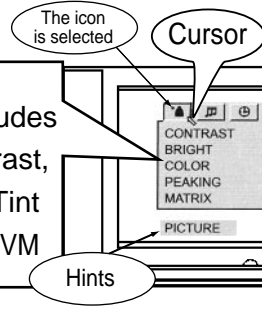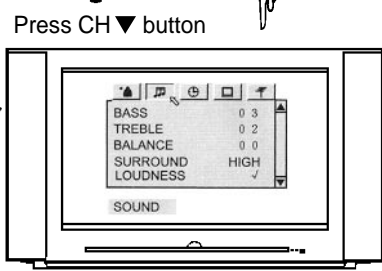
The SOUND menu includes the following items: Bass, Treble, Balance Surround sound, Loudness.

BASS 0 3
TREBLE 0 2
BALANCE 0 0
SURROUND HIGH
LOUDNESS √
SOUND
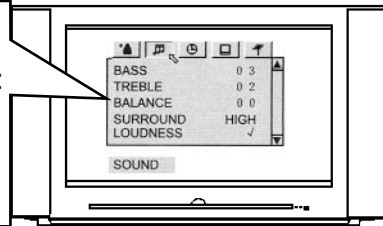
Press VOL► button
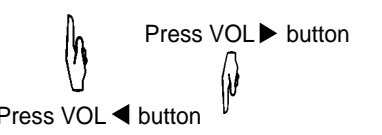
Press VOL◄ button

The TIMER menu includes the following items: TIMER OFF, TIMER ON, TIMER PR., PROG NO., ALARM.

TIMER OFF - - -
TIMER ON - - -
TIMER PR. - - -
PROG number 0 0 0
ALARM - - -
TIMER

Press VOL► button

Press ◄ VOL button

TIMER OFF - - -
TIMER ON - - -
TIMER PR. - - -
PROG number 0 0 0
ALARM - - -
TIMER
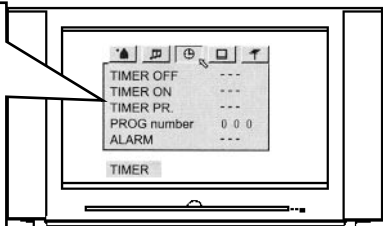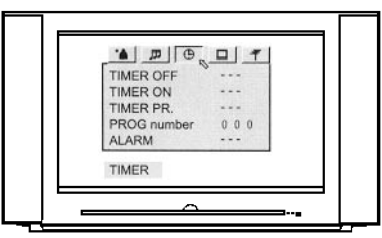
The OPTION menu includes the following items: OSD language, Auto power off, Rotation, Default screen aspect ratio, Picture moving, Degauss, Blue screen, Colour bar, Game.

ENGLISH ⇒ 中文
AUTO OFF √
ROTATE 0 0
WIDE 1 6 ; 9
DEGAUSS
OPTION

Press CH▼ button

Press CH▲ button or MENU button

TIMER OFF - - -
TIMER ON - - -
TIMER PR. - - -
PROG number 0 0 0
ALARM - - -
10–240 MINUTES
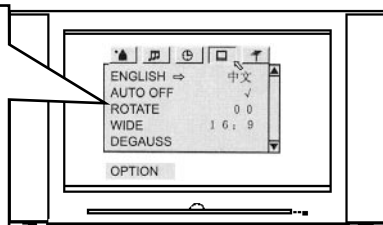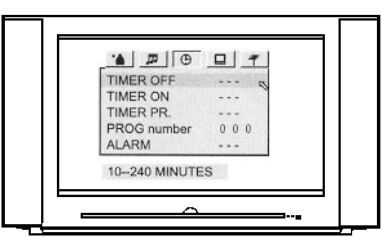
The PRESET menu includes the following items: colour, system, sound system, auto tune, search AFC, Fine tune, Skip, VCR.

SYSTEM AUTO
SOUND 6.5MHz
AUTOTUNE - - -
SEARCH ¦86MHz
AFC √
PRESET
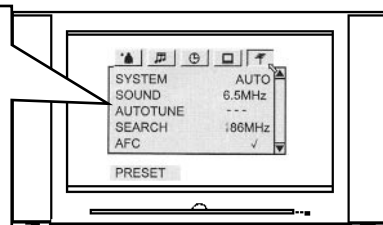
7. Channel Presetting

If you have preset the channels, you can directly watch TV programs after turning on the set.
If not, then preset channels in one of the following ways.

7.1 AUTO TUNE

Method 1:

1) Press **MENU** button (1) to enter into the main menu.
2) Press ◄ **VOL** or **VOL** ► button (2) to select **PRESET** menu, press **CH** ▼ button (3) to select and highlight **AUTO TUNE**.
3) Press ◄ **VOL** or **VOL** ► button (2) to start the auto tune. All active channels will be searched or stored into the memory automatically. After auto-tune, the TV will return to the first active channel program.
4) During auto tune, pressing **MENU** button (1) can exit.
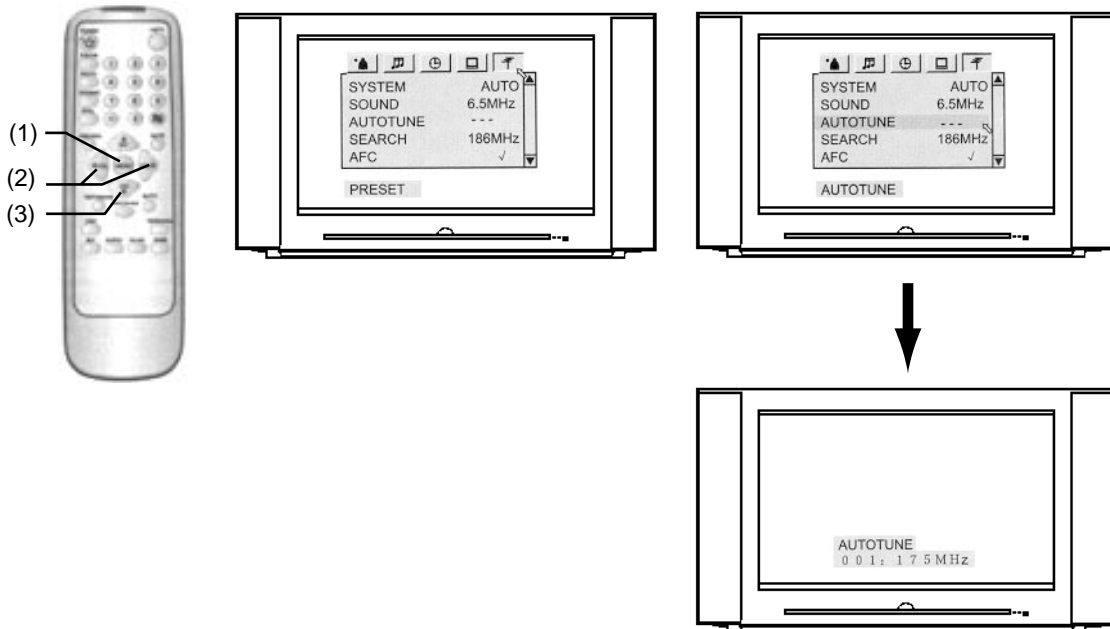
7.2 Manual search
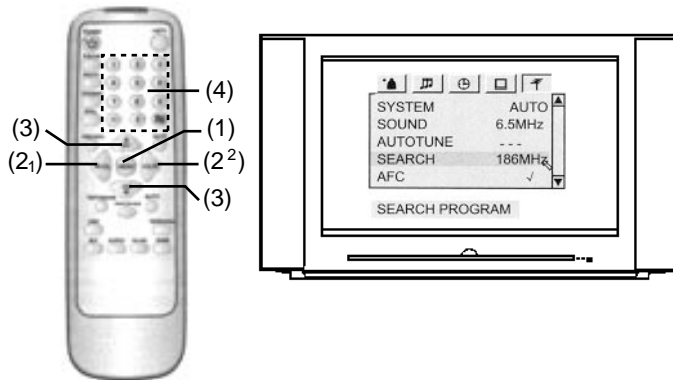
Method 2:
If auto tune can not preset the desired channels, or you want to preset the desired channels one by one with the preferred channel number, please make use of **SEARCH**.

1) Use number buttons (4) or **CH ▲/▼** button (3) to select a channel number.
2) Enter into the **PRESET** menu, press **CH▲/▼** button (3) to select **SEARCH**.

SYSTEM   AUTO
SOUND   6.5MHz
AUTOTUNE   - - -
SEARCH   186MHz
AFC   √

SEARCH PROGRAM

3) Press **VOL◄** button (2_1) to search channels from current channel to lower channel, press **VOL►** button (2^2) to search from current channel to higher channel. When a channel is located, the searching stops, this channel is then memorised with the preset channel number. If the channel is not the one you desire, please keep pressing **◄VOL** or **VOL►** button (2) to continue searching.

Note: If you know the frequency value of the desired channel, you can directly input the value using the digit keys.

7.3 To skip unnecessary position numbers

After presetting the channels, you can skip unnecessary position numbers so that only the channels you want to watch are selected with **CH▼** or **CH▲** button.

1) Press the number button (4) or **CH▲/▼** button (3) to select a channel number you want to skip.
2) Enter into the **PRESET** menu, press **CH ▲/▼** button (3) to select SKIP.
3) Press **VOL◄/►** button (2) to select **SKIP √** (ON). Thus, when you select channels with **CH▲/▼** button (3), this channel will then be skipped.
4) To restore a skipped position number, select the position number you want to restore with the number buttons, enter into the **PRESET** menu to select **SKIP** X (OFF).

(4)
(3)
(2)
(1)
(2)
(3)

SEARCH   186MHz
AFC   √
FINETUNE
SKIP   √
VCR   ×

√ON XOFF

7.4 Fine Tune

When picture and sound's effect of a channel is poor (for example, one or two CATV channel's picture and sound are not standard), you can correct them by making use of Fine Tuning.

7.4.1 AFC (Auto Frequency Control)

(4)
(3)
(2)
(1)
(2)
(3)

SOUND   6.5MHz
AUTOTUNE   - - -
SEARCH   186MHz
AFC   √
FINETUNE

√ON XOFF

1) Press the number buttons (4) or **CH ▲/▼** button (3) to select the channel you want to fine-tune.
2) Enter into the **PRESET** menu, press **CH▲/▼** button (3) to select **AFC**, then press **VOL◄/►** button (2) to select **AFC √** to activate it, the set begins fine-tune until the optimum picture and sound is achieved.

To use **AFC** is recommended. If you are not satisfied with the effects after the **AFC**, you can shut down **AFC** and make use of FINE TUNE until you get satisfied effect.

7.4.2 FINE TUNE

1) Press the number buttons (4) or **CH▲/▼** button (3) to select the channel you want to fine-tune.
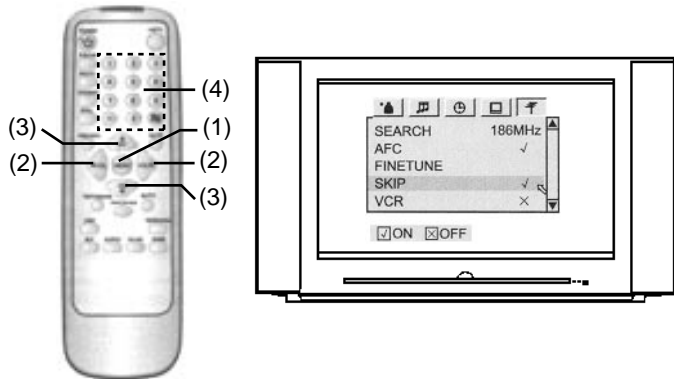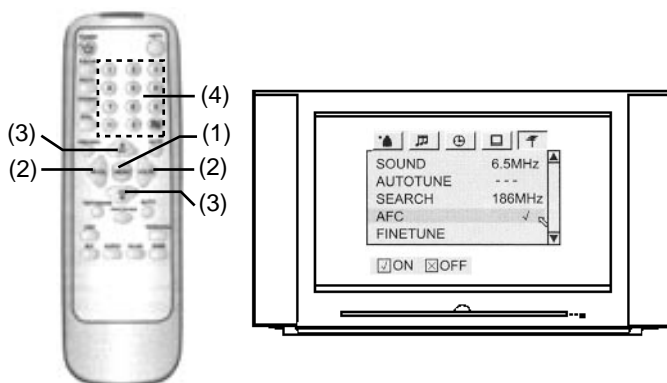2) Enter into the **PRESET** menu, press **CH▲/▼** button (3) to select Fine tune, then press and hold the **VOL◄** or **VOL►** button (2) to begin fine-tune until the optimum picture and sound is achieved.

(4)
(3)
(2)
(1)
(2)
(3)

AUTOTUNE   - - -
SEARCH   186MHz
AFC   √
FINETUNE
SKIP   ×

FINETUNE - + - -

! **Note:** if some channel's colour or sound is abnormal, it may be that the setting of the colour or the sound system is wrong, please do adjustment according to "8.6 The setting of colour and sound system" to set the proper colour and sound system.

7.5 VCR

SEARCH   186MHz
AFC   √
FINETUNE
SKIP   √
VCR   ×

☑ON ☒OFF
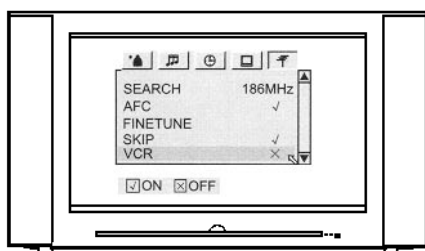
When receiving **VCR** programs, there may occur jump of the picture or bend of upper picture. You can solve this problem by activating **VCR** function. Please do the following steps:
Enter into the **PRESET** menu, press **CH▼** or **CH▲** button to select **VCR** item, and press **◄VOL** or **VOL►** button to set **VCR√** (ON).
If you do not meet this problem, or the signal source is not from VCR, please shut off this function.

7.6 The setting of colour and sound system

7.6.1 Use OSD button

(1)

PAL   6.5MHz
100Hz MOVING
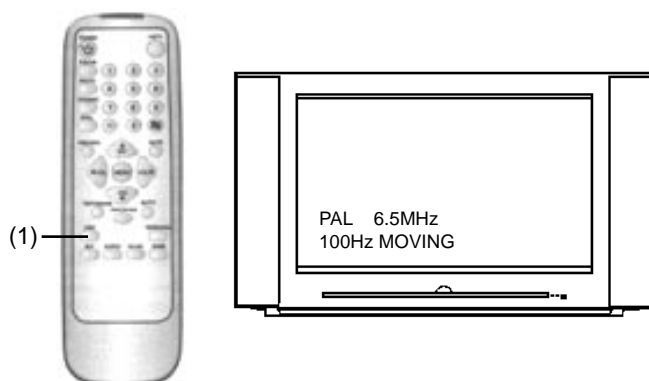
Press **OSD** button (1), the screen will display position number, colour and sound system. scan mode etc. Check whether the colour and sound system is correct.
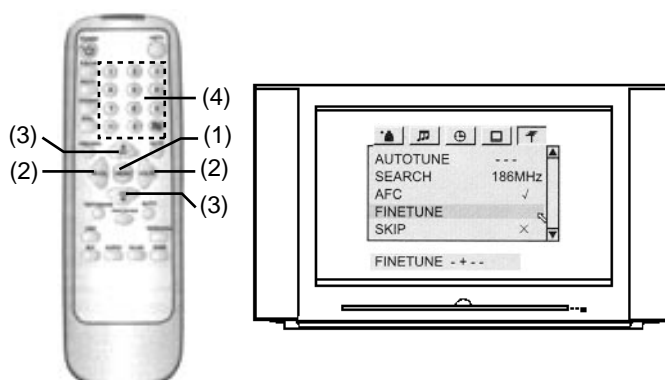
7.6.2 The setting of colour system

1) Press the number buttons (4) or **CH ▲/▼**
   button (3) to select the channel you need
   to set the colour system.
2) Enter into the **PRESET** menu, press
   CH ▲/▼ button (3) to select **SYSTEM**,
   then press **VOL ◄/►** button (2) to select
   proper colour system. Every time you
   press **◄ VOL** or **VOL ►** button (2), the
   colour system will change in the
   sequence below:
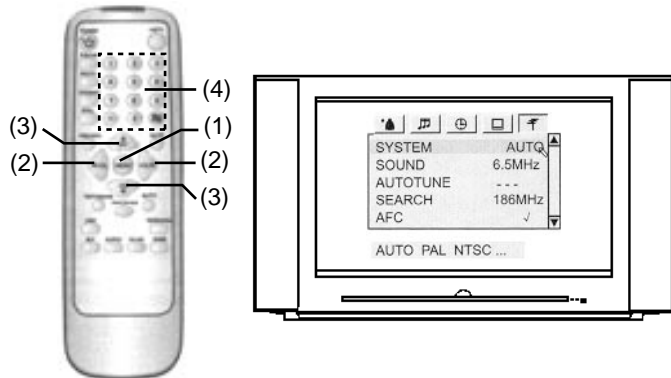
```
AUTO  ⟷   PAL ⟷  SECAM  ⟷  PAL60 ⟷  N443  ⟷  NTSC
   └─────────────────────────────────────────────┘
```

In normal circumstances, please set the colour system to AUTO, and the set can automatically
select the proper colour system. If colour is still abnormal, then select the proper colour system
manually.

7.6.3 The setting of sound system
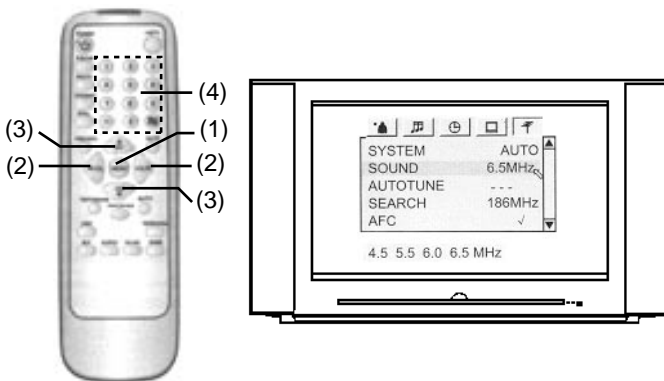
1) Press the number buttons (4) or **CH ▲/▼**
   button (3) to select the channel you need
   to set the sound system.
2) Enter into the **PRESET** menu, press
   CH ▲/▼ button (3) to select **SOUND**,
   then press **VOL◄/►** button (2) to select
   proper sound system. Every time you
   press **◄ VOL** or **VOL ►** button (2), the
   sound system will change in the
   sequence below:

```
4.5MHZ  ⟷   5.5MHZ  ⟷   6.0MHZ  ⟷  6.5MHZ
   └──────────────────────────────────────┘
```

8. Channel selection

You can select your desired TV program by one of the following methods.

8.1 Using the direct select buttons (0-9 & -/-- button)

To select a one-digit position number

(1) Press -/-- button to display "-" on the top right screen.

(2) Press 0-9 number buttons to select a channel.
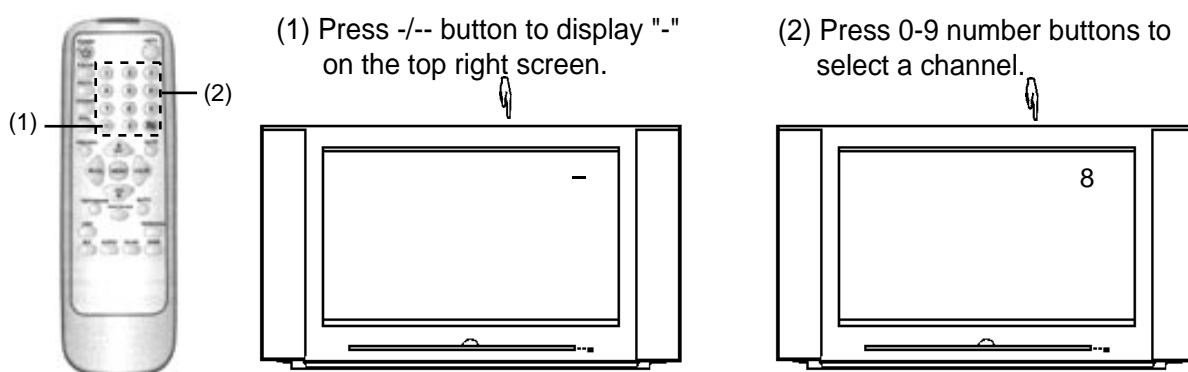
To select a two-digit position number

(1) Press -/-- button to display "--" on the top right screen.

(2) Then press 0-9 to select a channel number.
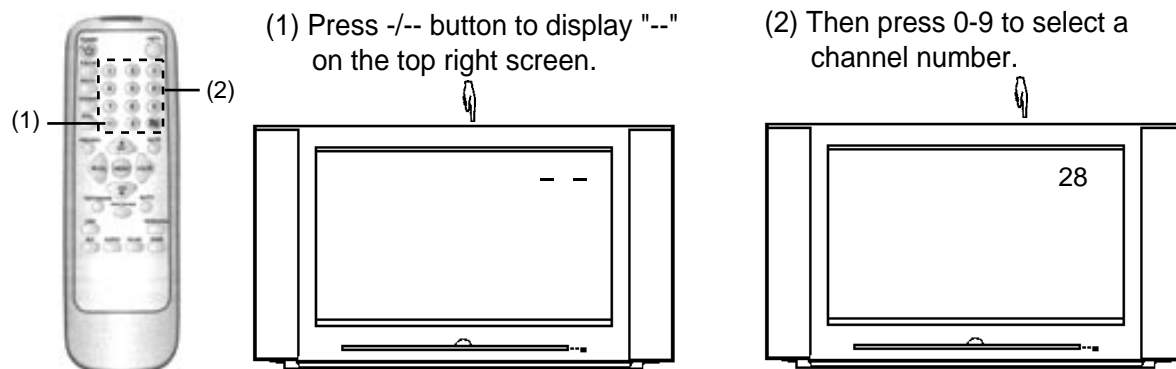
To select a three-digit position number

(1) Press -/-- button to display "---" on the top right screen.

(2) Then press 0-9 to select a channel number.
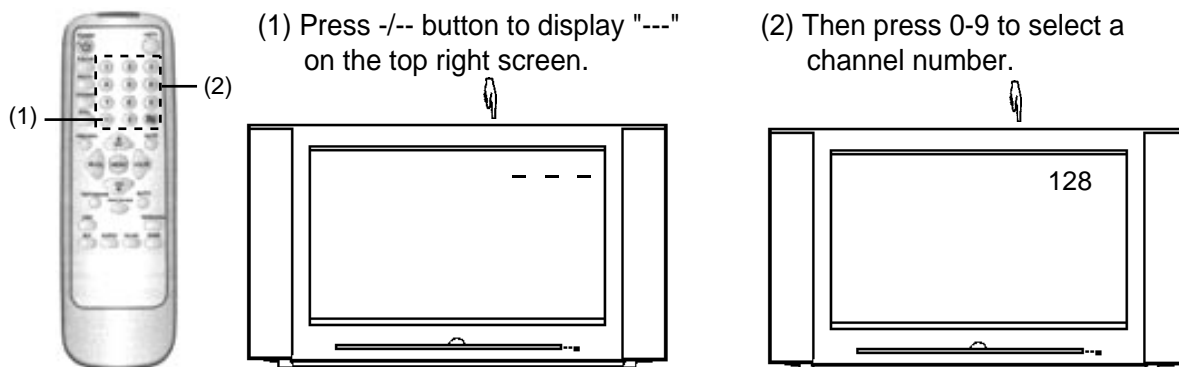
8.2 Using the CH▼ or CH▲ buttons

Press **CH▲** (1) to select higher position numbers; **CH▼** (2) to select lower ones.

(3)
(1)
(2)

28
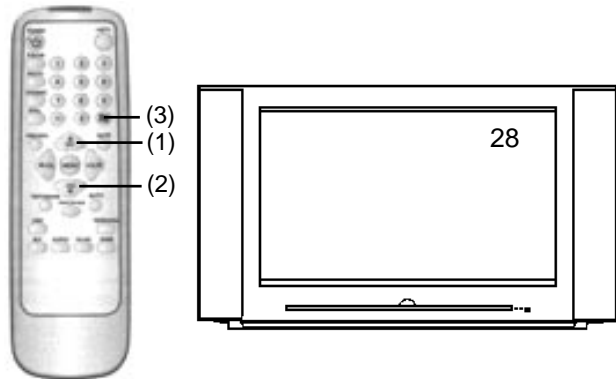
8.3 Using the PREVIOUS channel button (⇆)

Press the ⇆ button on the remote controller can swap the current viewed channel with the previous one.

(!) Note: Pressing the ⇆ button can also switch between programs from RF, AV1, AV2, AV3, DVD IN, HDTV IN (but this button can not be used to switch between YPbPr and XGA).

8.4 Using the PREVIEW button

Press **PREVIEW** button to start scanning from the current channel to higher channel, 16 sub-pictures will fill up the whole screen one by one. You can press one of P.SCAN, PHOTO, DYNAMIC, STILL, 0-9, -/-- , ⇆ buttons on the remote controller to select a corresponding channel program.

The menu of 16 picture

(4)

P.SCAN
PHOTO
DYNAMIC
STILL
1 2 3
4 5 6
7 8 9
-/-- 0 ⇆

These buttons' arrangement is in accordance with the arrangement of the program menu, each button represents the corresponding program.
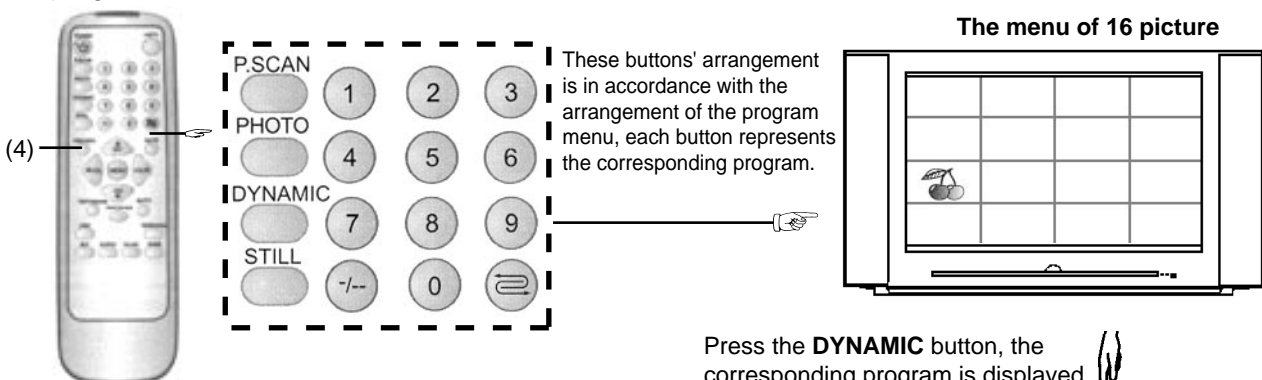
Press the **DYNAMIC** button, the corresponding program is displayed on the main screen.

If there are more than 16 programs, a new series of programs from 17th program will be displayed in turn, overwriting the previous screen until all the programs be displayed, and then recycle.
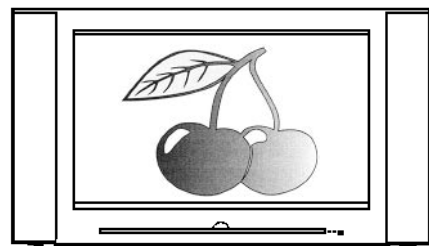
9. Picture and sound adjustments

9.1 Picture adjustment

9.1.1 Making use of PERSONAL button

Bright ← Display more brightness and contrast pictures

Soft ← Display soft pictures

Personal ← Display the picture that you have adjusted in PICTURE menu

Standard ← Display normal pictures
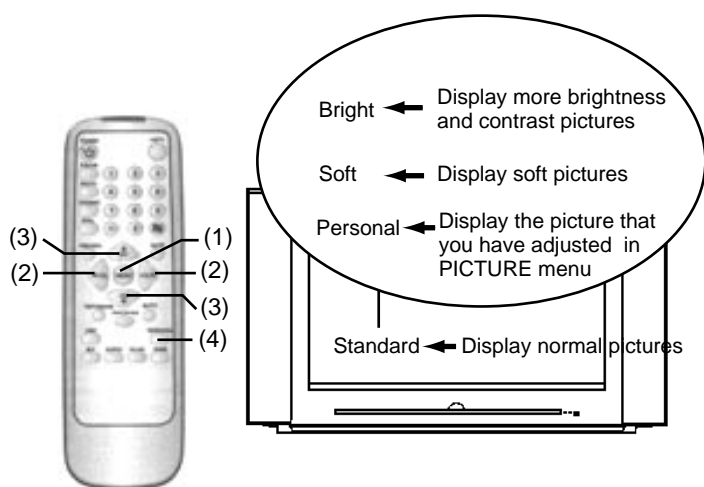
You can select the picture quality instantly among three preset modes and one user-set mode. Press the **PERSONAL** button (4) to select the desired picture quality. **STANDARD**, **BRIGHT**, **SOFT** and **PERSONAL** (user-set) can be selected cyclically. In these settings, brightness and contrast are different. You can select one of them to fit different environment and the program type. The picture quality you have set in PICTURE menu will be stored into PERSONAL.

9.1.2 Making PICTURE menu

CONTRAST	7 0
BRIGHT	5 0
COLOR	5 0
PEAKING	0 2
MATRIX	NORM
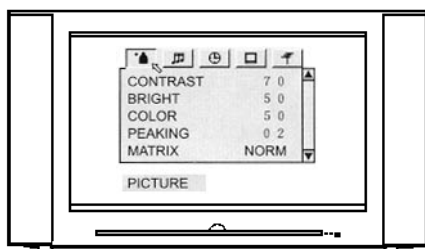
PICTURE

1) Press the **MENU** button (1) to enter into the main menu, press ◄ **VOL** or **VOL** ► button (2) to select PICTURE menu.

2) Press **CH** ▲/▼ (3) to cycle through the menu and select the desired adjusting item, press **VOL**◄/► button (2) to adjust.

Note: When watching moving pictures, do not set **DNR** to *MID* or *HIGH*, otherwise the receiving effects will be affected.
*TINT is only for NTSC system.
*There is no COMB item when in YCbCr or S-VIDEO input mode.

ITEM	PRESSING	
	◀ VOL	VOL ▶
CONTRAST	WEAKER	STRONGER
BRIGHT	DARKER	LIGHTER
COLOUR	PALER	DEEPER
PEAKING	LOWER	HIGHER
*TINT	-50~+50	
MATRIX	NORMAL/WARM/COLD	
CTI	ON/OFF	
*COMB	ON/OFF	
DNR	OFF/LOW/HIGH/MILD	
SVM	OFF/LOW/HIGH	

9.1.3 Making use of DYNAMIC button

Press **DYNAMIC** button to switch the set between **STATIC** picture and **MOVING** picture mode according to the type of the program 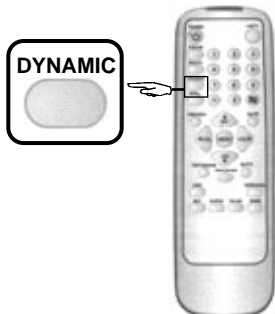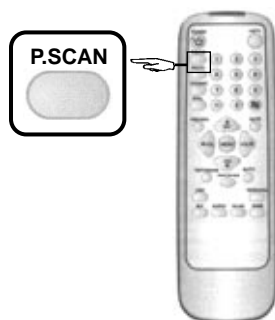you are watching. For example, if you are watching programs in which characters are main and moving and changing are less such as stock information, selecting **STATIC** is suggested. If you are watching programs such as TV play or sports in which moving and changing are more and quicker, selecting **MOVING** is suggested.

9.1.4 Making use of P.SCAN button

Press **P.SCAN** button to cycle through **AUTO SCAN/100Hz/P.SCAN** and select the proper scan mode in which most satisfying picture can be displayed. **Note:** In AUTO SCAN mode, the set can automatically set to 100Hz scanning when the signal source is in PAL system. When the signal source is in NTSC system, the set will automatically set to progressive scanning.

9.1.5 Making use of STILL button

Press **STILL** button to still the current picture, press it again to restore.

9.1.6 Making use of PHOTO Button
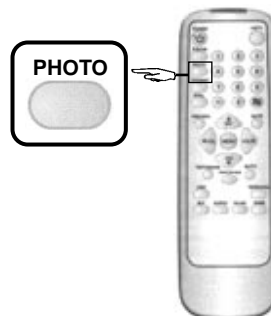
Press **PHOTO** button to caption moving picture into 4 successive frozen frames. In a certain interval a new series of "photo finish" picture is displayed, overwriting the old ones. Press the button again to cancel.

9.1.7 Making use of PANORAMA button

PANORAMA

Press **PANORAMA** button to cycle through 16:9 Mode/PANORAMA/4:3 Mode /ZOOM/TITLE and select your desired screen aspect ratio. When you switch to other programs, the screen aspect ratio will restore to the default one. If you wish to keep your selected screen aspect ratio even when changing programs, please enter into the **OPTION** menu and select **Default** item to set the default screen aspect ratio.

16:9 mode expands the conventional 4:3 picture into a full 16:9 picture and at the same time still maintains the height of the picture. Or view DVD program, movie in 16:9 mode.

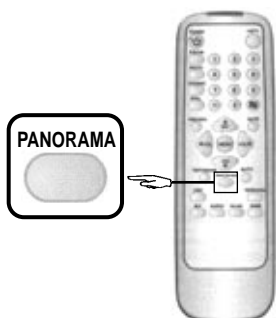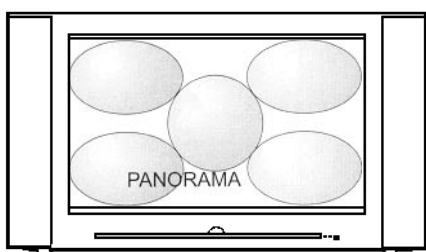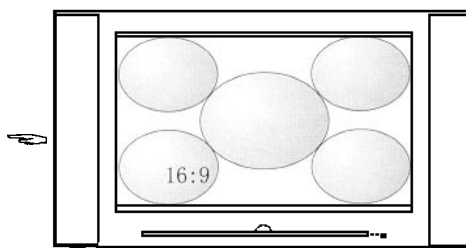**PANORAMA** mode expands the conventional 4:3 picture into a full 16:9 picture and at the same time still maintains a good aspect ratio at the centre of the screen. This will minimise distortion and produce a remarkable panoramic picture.

The **4:3 mode** leaves conventional 4:3 picture as they are, with black bars on both sides of your screen.
Note: the **4:3 display mode** is one which is suggested not to use. When the current picture's brightness changes largely, there occurs blurry and tingling on picture's left and right sides, or when picture's upper and lower part's brightness differs greatly, there is tilt on picture's sides, these are normal phenomena, it is not necessary to worry about them.
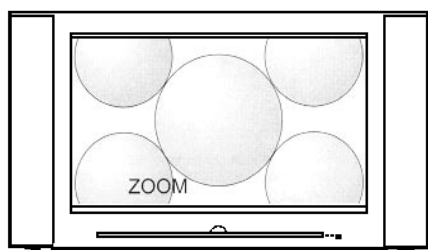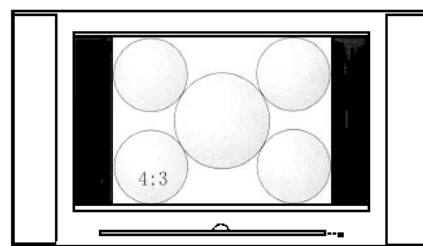
This feature is recommended for viewing "letter-box" movie (picture with a black bar on the top and bottom) with 16:9 format. When you select this mode, you are able to fill up the whole screen. If you watch a 4:3 picture in this mode, the picture will be expanded and some information at the top and bottom will be lost.

Title mode moves the picture in ZOOM mode upward so that when viewing programs with title at the bottom, the bottom title can be revealed.
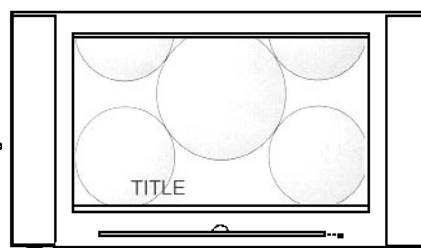
9.2 Sound adjustment
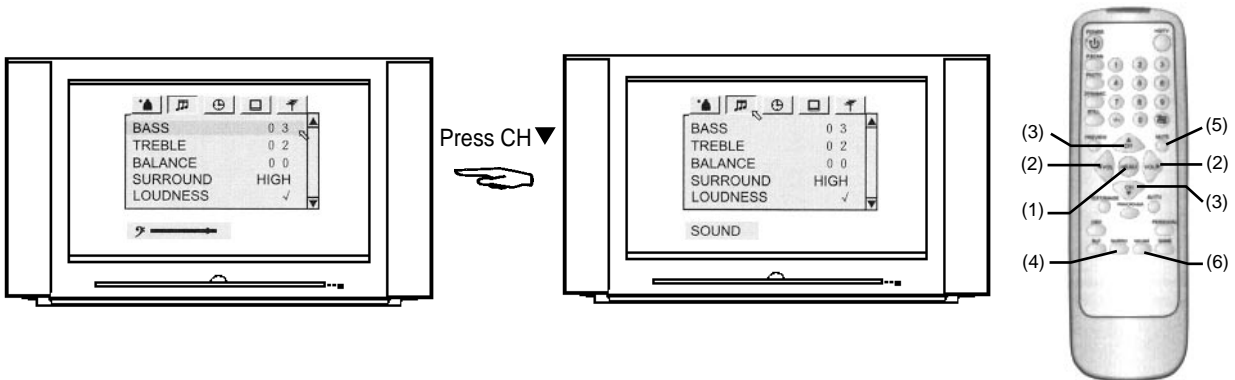
Press CH▼

1) Press the MENU button (1) to enter into the main menu, press ◄ **VOL** or **VOL** ► button (2) to select SOUND menu.
2) Press **CH ▲/▼** button (3) to cycle through the menu and select the desired adjusting item, press **VOL◄/►** button (2) to adjust.

9.2.1 Bass/Treble adjustment

In SOUND menu select BASS or TREBLE, press ◄ **VOL** or **VOL** ► button (2) to adjust the level.

9.2.2 BALANCE adjustment

In SOUND menu select BALANCE, press ◄ **VOL** or **VOL** ► button (2) to adjust the level. Press ◄ **VOL** button (2) to decrease the right channel's sound, press **VOL** ► button (2) to decrease the left channel's sound.
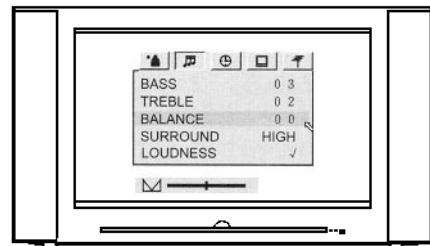
9.2.3 Making use of Surround sound

Making use of surround sound, you can enjoy the dynamic sound effect that is like being in a music hall. Enter into the SOUND menu and select SURROUND, press ◄ **VOL** or **VOL** ► button (2) to select SURROUND OFF/LOW/HIGH.
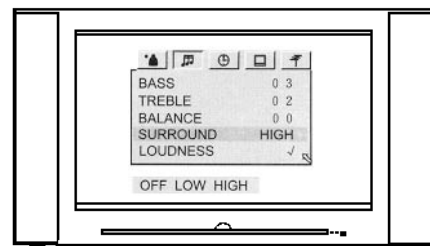
or you can directly press the SURRD button (4) on the remote controller to select **SURROUND OFF/HIGH/LOW** to get the optimum surround sound effect.
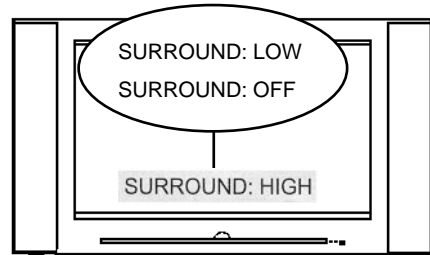
9.2.4 Making use of LOUDNESS

In **SOUND** menu select **LOUDNESS**, press ◄**VOL** or
VOL▶ (2) to select **LOUDNESS ON/OFF**. When selecting
LOUDNESS ON, you can let the ears enjoy enough bass and
treble even if the volume is lower.

BASS	0 3
TREBLE	0 2
BALANCE	0 0
SURROUND	HIGH
LOUDNESS	√

☑ON ☒OFF
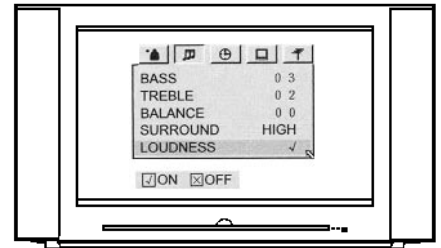
9.2.5 Volume adjustment and sound mute

VOL ◢
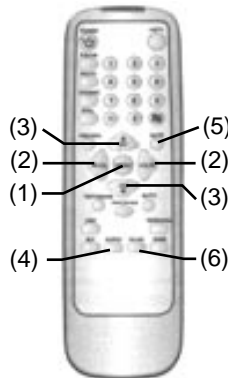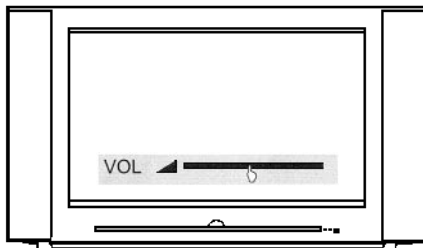
Press ◄ **VOL** or **VOL** ▶ (2) to adjust
the volume.
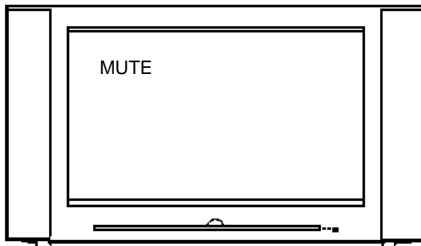
MUTE

Press **MUTE** button (5) to mute the sound temporarily and
press it again to restore the sound.

9.2.6 NICAM function

This set can identify NICAM program. If you are receiving
NICAM program and you want to get NICAM effect, please
press **NICAM** button (6) on the remote controller to select
NICAM. Press the NICAM button again the set will restore to
FORCE FM mode. If the program is an ordinary one without
NICAM, pressing this button has no effect.

FORCE FM

NICAM
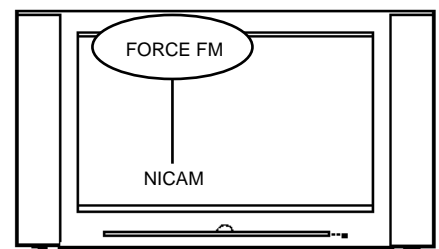
10. TIMER setting

The TIMER setting you have made will restore to default value in about 6 seconds after you turn off the set.

Press the **MENU** button (1) to display the main menu, press ◄ **VOL** or **VOL** ▶ (2) to select **TIMER** menu, press **CH** ▲/▼ (3) to cycle through the menu and select the desired item.

(3)
(2) — (2)
(1) — (3)
(4)
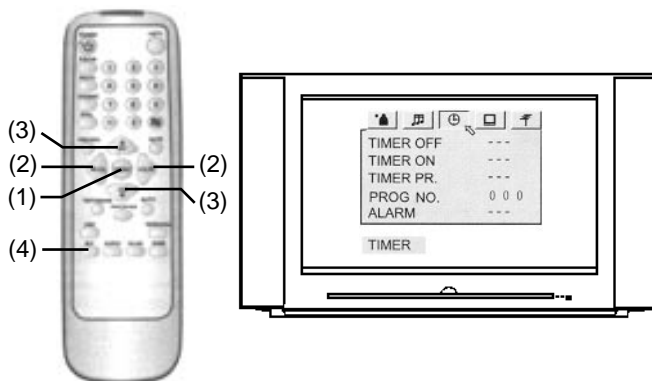
10.1 OFF timer

With the OFF timer, the TV will automatically switch to standby mode at a preset time. The setting steps are as follows:
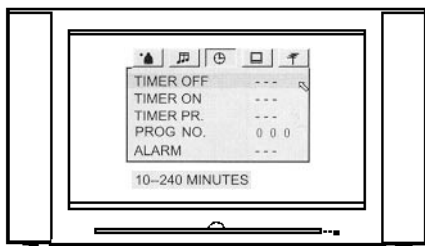
In **TIMER** menu press **CH**▼ or **CH**▲ button (3) to select **Timer Off** and press ◄ **VOL** or **VOL** ▶ button (2) to set the time after which you want to turn off the set. (from 10-240 minutes and in 10-minute step). If you want to cancel OFF timer, press ◄**VOL** or **VOL** ▶ button (2) until "---" is displayed.

You can also make use of **SLEEP** timer function to turn off the set automatically after a preset time, and bring the set to standby mode. Every time you press the **SLP** button (4) the timer will skip to the next one (in 10-minute step) until it reaches to 240 minutes. Press it again, the timer returns to ---, and the sleep timer is cancelled.

TIMER OFF 010
TIMER OFF 020
⋮
TIMER OFF 240
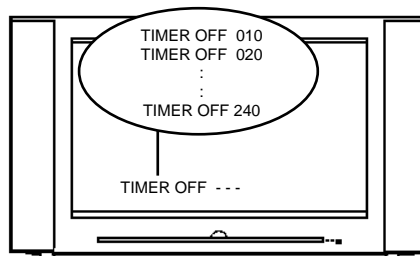
TIMER OFF - - -

10.2 ON timer

With the ON timer, the TV which is at standby mode will automatically turn on at a preset time. The setting steps are as follows:
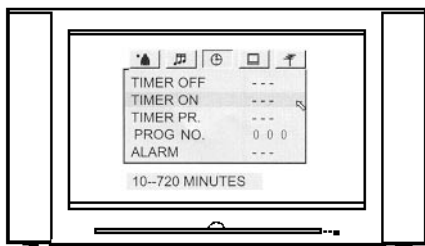
Press **CH** ▼ or **CH** ▲ (3) to select **Timer On** and press ◄ **VOL** or **VOL** ▶ (2) to set the TV ON time (range from 10-720 minutes and in 10-minute step). If you want to cancel ON timer, press ◄ **VOL** or **VOL** ▶ (2) until "---" is displayed.
Note: when the ON timer setting is effective, the green timer indicator will light up to inform the user.

10.3 ALARM timer

This function allows the to alarm
automatically at the preset time. The setting
steps are as follows:
Press **CH▼** or **CH▲** button (3) to select
Alarm, then press **◀ VOL** or **VOL▶** button (2)
to set the amount of time after which you want
the TV to alarm (range from 10-240 minutes
and in 10-minute step). If you want to cancel
ALARM timer, press **◀ VOL** or **VOL ▶** (2)
until is "---" displayed.

```
          ·▲  ♫  ⊕  ▢  ⊀
          TIMER OFF     - - -
          TIMER ON      - - -
          TIMER PR.     - - -
          PROG NO.      0 0 0
          ALARM         - - -
          10--240 MINUTES
```

(3)
(2)   (2)
(1)   (3)
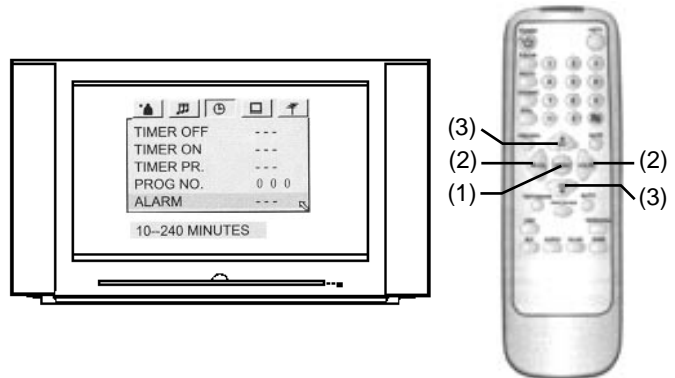
10.4 Program timer

This function allows the set to automatically switch to the
preset channel at a preset time. The steps are as follows:
Press **CH▼** or **CH▲** (3) to select *TIMER PR*, then press **◀
VOL** or **VOL ▶** (2) to set the amount of time after which you want
the TV to switch. (range from 10-240 minutes and in 10-minute
step). If you want to cancel this function, press **◀ VOL** or **VOL ▶**
(2) until "---" is displayed.

```
          ·▲  ♫  ⊕  ▢  ⊀
          TIMER OFF     - - -
          TIMER ON      - - -
          TIMER PR.     - - -
          PROG NO.      0 0 0
          ALARM         - - -
          10--240 MINUTES
```
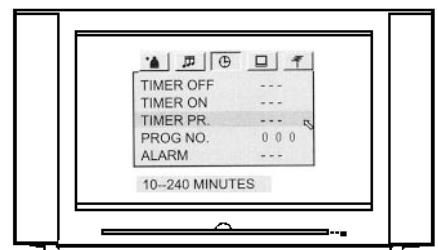
10.5 Prog Number

Making use of this function to set the program number which
you want the set to switch to automatically at the preset time.
The steps are as follows:
Press **CH▼** or **CH▲** (3) to select *PROG NO.*, press **◀VO**L or
VOL ▶ (2) to set the program number which you want the TV to
switch to. If you want to cancel this function, press **◀VOL** or
VOL▶ (2) until "000" is displayed.

```
          ·▲  ♫  ⊕  ▢  ⊀
          TIMER OFF     - - -
          TIMER ON      - - -
          TIMER PR.     - - -
          PROG NO.      0 0 5
          ALARM         - - -
          0--239
```
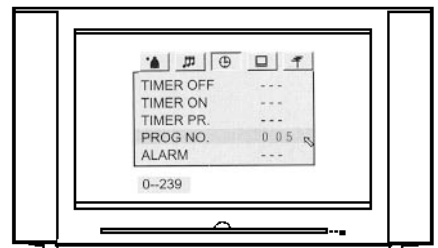
11. Making use of OPTION menu

Press the **MENU** button (1) to display the main menu, press ◄ **VOL** or **VOL** ► button (2) to select OPTION menu. Press **CH▲/▼** button (3) to cycle through the menu and select the desired item.
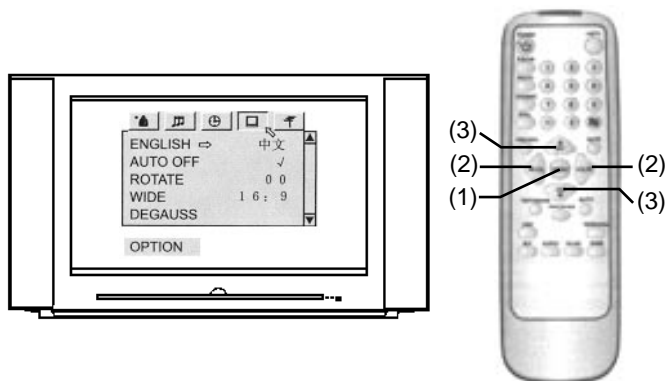
11.1 OSD language selection

In **OPTION** menu, press **CH▼** or **CH▲** (3) to select ENGLISH item, press ◄ **VOL** or **VOL** ► (2) to switch the OSD language between ENGLISH and CHINESE.
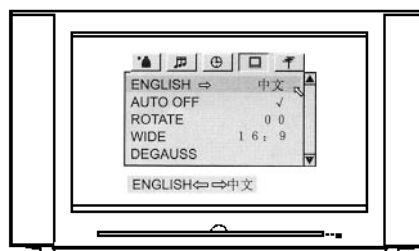
11.2 AUTO-POWER-OFF function

With AUTO-POWER-OFF function ON, the TV will automatically turn off after about certain minutes if a vacant channel is tuned or TV broadcast for a day is finished or no signal is being received.
Enter into the **OPTION** menu, press **CH▼** or **CH▲** (3) to select **AUTO OFF**, press ◄ **VOL** or **VOL** ► (2) to switch between √ (ON)and X (OFF).
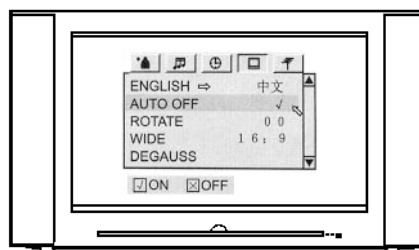
11.3 Rotate function

When you switch on your TV, there may be a slight tilt of the picture to the left or right. This is due to the earth's magnetic field or position of your TV. To rectify, you can do the following.
Enter into the **OPTION** menu, press **CH▼** or **CH▲** button (3) to select **ROTATE**, press ◄ **VOL** or **VOL** ► button (2) to tilt the picture leftward or rightward until you rectify it.

11.4 Default screen aspect ratio setting

Making use of this function can set the
default screen aspect ratio.
Enter into the **OPTION** menu, press
CH ▼ or **CH ▲** button (3) to select Default,
press **◄ VOL** or **VOL ►** button (2) to cycle
through 16:9, PANORAMA, 4:3, ZOOM,
TITLE and make your choice to set the
default screen aspect ratio. Later on, when
you switch channels, the screen will remain in
the default aspect ratio.

```
ENGLISH ⇒        中文
AUTO OFF          √
ROTATE           0 0
WIDE            1 6 : 9
DEGAUSS
16:9  4:3  PAN0 ...
```

(3)
(2)   (2)
(1)   (3)

11.5 Picture moving

In **OPTION** menu, if you have set **TITLE** for default screen
aspect ratio, then **P.MOV** menu item will appear below **WIDE** item.
Select **P.MOV**, then press **◄ VOL** or **VOL ►** button (2) to move
the picture downward or upward, thus to adjust the position of the
title. After completion, exit the menu, and the title position will be
memorised.
Note: If you set the current channel's screen to TITLE by pressing
PANORAMA button, enter into the OPTION menu and adjust
P.MOV, the title position can not be memorised.

```
AUTO OFF          √
ROTATE           0 0
WIDE            1 6 : 9
P.MOV            2 2
DEGAUSS
```
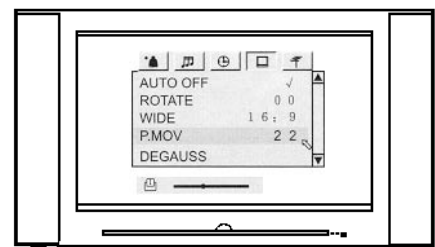
11.6 Degaussing

If there occurs magnetisation, please do the following to
degauss the set:
Enter into the **OPTION** menu, press **CH ▼** or **CH ▲**
button (3) to select **Degauss**, then press **◄ VOL** or **VOL ►**
button (2) the degaussing circuit begins to work. If still can not
degauss thoroughly, please repeat the above operation after
15-20 minutes until magnetisation disappear.

```
AUTO OFF          √
ROTATE           0 0
WIDE            1 6 : 9
DEGAUSS
BLUE SCREEN       √
DEGAUSS ⇐⇒
```
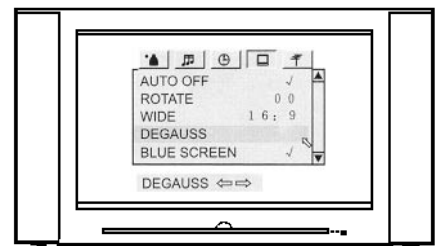
11.7 Blue screen setting

With the BLUE SCREEN function ON, the TV will
automatically turn blue when no signal is being received.
Otherwise snowy picture will appear on the screen when
no signal is being received.
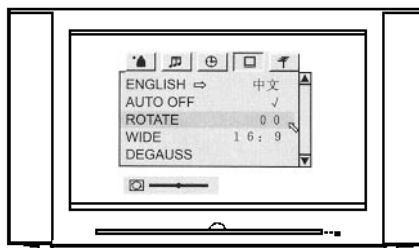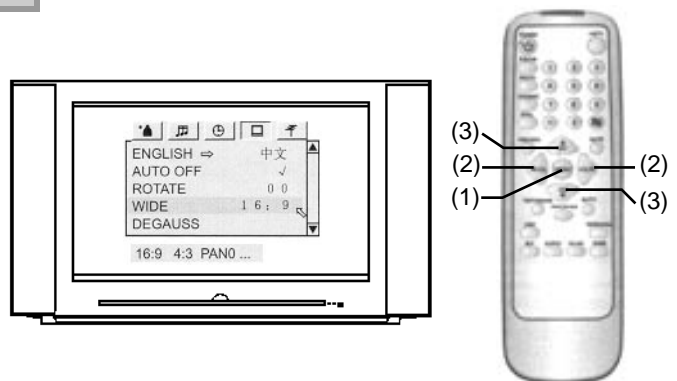Enter into the **OPTION** menu, press **CH ▼** or **CH ▲** (3) to
select **BLUE SCREEN**, press **◄ VOL** or **VOL ►** (2) to switch
between √ (ON)and X (OFF).

```
ROTATE           0 0
WIDE            1 6 : 9
DEGAUSS
BLUE SCREEN       √
COLOR BAR         ×
☑ON  ☒OFF
```
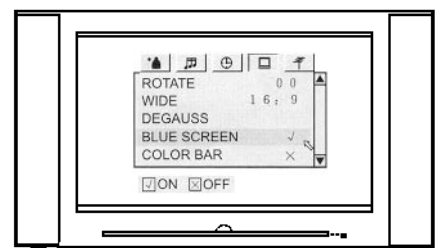
11.8 Colour bar signal

The colour bar signal is an alignment signal used by service personnel to check the set, and common user is suggested not to use it.
Enter into the **OPTION** menu, press **CH▲** or **CH▼** button (3) to select **COLOUR BAR**, then press **VOL◄** or **VOL ►** button (2) to open (√) or shut off (X)the colour bar.
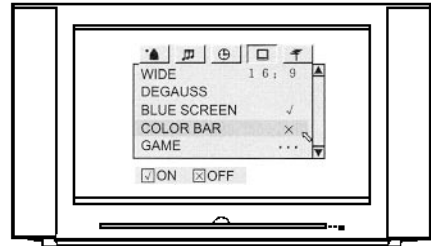
11.9 Game
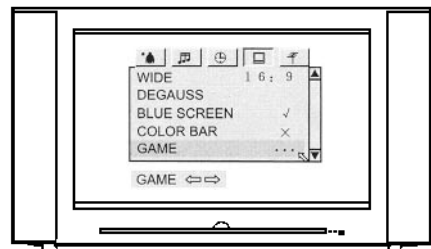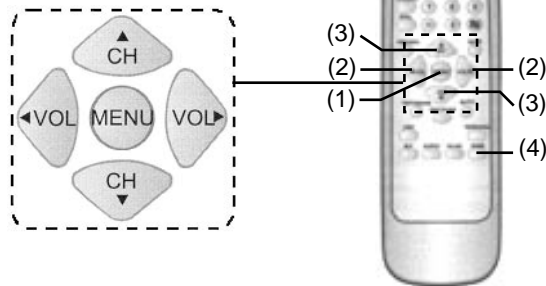
Making use of this function allows you to play game- FALLING CUBE.

Press **GAME** button (4) or enter into the **OPTION** menu and select **GAME** item, then press **◄ VOL** or **VOL►** (2) to enter into the game-playing interface.
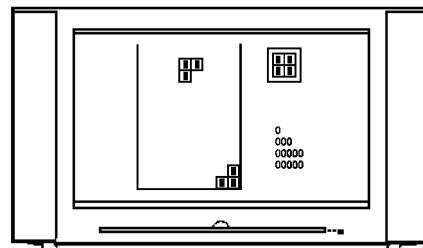
Press **CH▲**, **CH▼** or **◄VOL**, **VOL►** button to play the game.

◄ VOL , **VOL ►** button (2): move the cube leftward/rightward.

CH▲ button (3): rotate the cube.

CH▼ button (3): accelerate the falling cube's speed.

If you want to change the playing difficulty, in game starting page or wait until the current game ends and the grade is 0, press **CH▲** , **CH▼** button (3) to change the game grade, then press the MENU button (1) to restart the game.

MENU button (1): start or pause the game.

Exit the game: pressing any button except the above control buttons can exit.

Pause the game: exit the game following the above way and do not turn off the set, then the last game-playing status will be stored automatically. Enter the game again, you can continue to play.

Menu operation in video mode

You can connect video equipments such as a VCD, VTR to this TV and enjoy the program playbacked by the video equipment. Press the **AV/TV** button to display the signal source selection menu and then select video mode.

(3)
(2)   (2)
(1)   (3)
             (4)

```
┌─────────────────────────────────┐
│  ┌───────────────────────────┐  │
│  │ ▲ │ ♫ │ ⊕ │ ▢ │ ⊤        │  │
│  │ SYSTEM      AUTO          │  │
│  │ VCR           √           │  │
│  │ VOL REDUCE    √           │  │
│  │                           │  │
│  │                           │  │
│  │ PRESET                    │  │
│  └───────────────────────────┘  │
└─────────────────────────────────┘
```
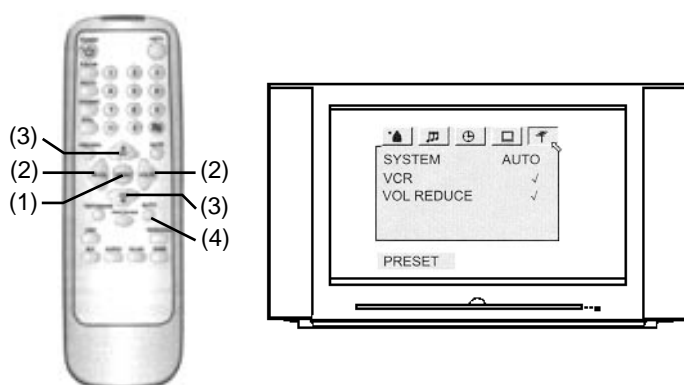
Colour system setting

As same as 7.6.2 "The setting of colour system"

VCR

Normally when watching VCR (video cassette recorder) program, the picture is normal, selecting **VCR** X (OFF) is OK. But since some cassette's quality is poor, and non-synchronous phenomenon may occur, the picture's top is distorted and is abnormal. At this time, please set **VCR** √ (ON) , and the picture will be normal. Please do the following steps:
Press the MENU button (1) to display the main menu, press **VOL◄** or **VOL ►** button (2) or select PRESET menu, press **CH ▲/▼** button (3) to select **VCR**, then press **VOL◄** or **VOL ►** button (2) to set **VCR** √ (ON).

(!) **Note:** when the signal source is not from **VCR** (that is, not from video **cassette** recorder), please set VCR X (OFF).

VOLUME REDUCE

When the sound is too loud and coarse and in distortion, you can activate VOLUME REDUCE function to reduce the sound.
Enter into the **PRESET** menu, press **CH▼** or **CH▲** button (3) to select **VOL REDUCE**, press ◄ **VOL** or **VOL ►** button (2) to set **VOL REDUCE** √ **(ON)**, otherwise set **VOL REDUCE** X **(OFF)**.

(!) **Note:** as regards to the other menu items' adjustment, please refer to the instructions described in the previous pages.

Menu operation in YCbCr mode

You can connect the set to DVD or other equipment with YCbCr terminal. Press the **AV/TV** button (4) to display the signal source selection menu and then select **YCbCr**.
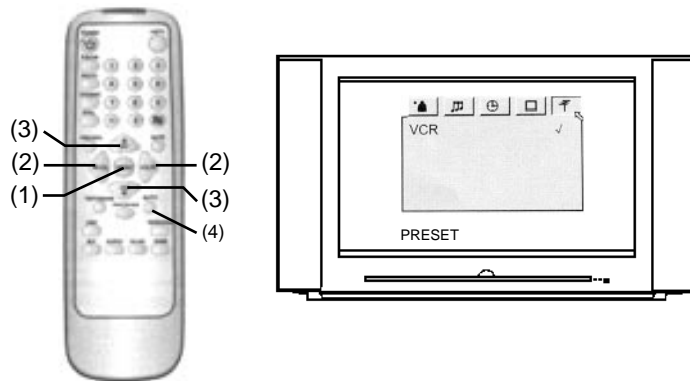
Note: as regards to the menu operation and menu item adjustment in YCbCr mode, please refer to the instructions described in the previous pages.

Operation in HDTV mode

12. Buttons' function

When the signal source is input through XGA interface or YPbPr terminals, then the set will work in HDTV mode

MENU (1) on the set or **MENU** (1) on the remote controller: It is used to call up OSD menu, or to enter or exit from the selected menu item after OSD menu is activated.

CH+ (3) on the set or **CH▲** (3) on the remote controller: It is used to move the cursor upward or clockwise after OSD menu is activated, or increase the value of parameter after menu item is selected.

CH - (3) on the set or **CH▼** (3) on the remote controller: It is used to move the cursor downward or anti-clockwise after OSD menu is activated, or decrease the value of parameter after menu item is selected.

TEXT/IMAGE (4): It is used to cancel the OSD menu after OSD menu is activated. It is also used to switch between text mode and image mode (in either mode contrast and brightness are different).

The sound control buttons are as same as the sound buttons introduced in **Sound adjustments** in page 23 and 24. The audio parameters you have set in RF mode such as Bass, Treble and Loudness also function in HDTV mode.
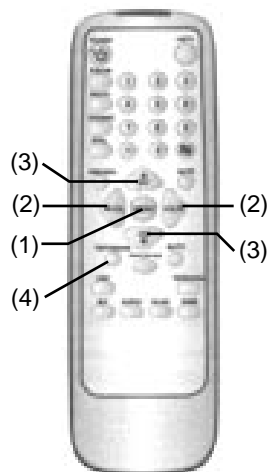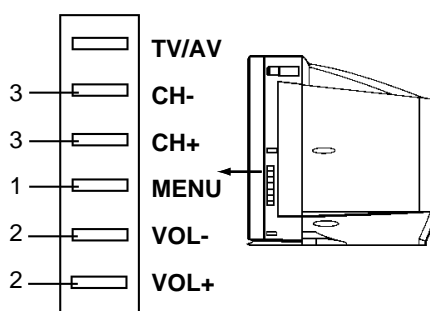
13. Signal source selection

If you previously watch programs in RF mode and now you want to watch HDTV programs, please first press the **AV/TV** button (4) call up the signal source selection menu, press the **CH▲** or **CH▼** button (3) to select HDTV-XGA or YPbPr, and press **VOL◄** or **VOL►** button (2) to confirm your choice. Later you can directly press **HD/TV** button (5) to switch between the previous RF mode and HDTV mode.

```
RF
VIDEO1
VIDEO2
VIDEO3
YCbCr
⇒ HDTV-XGA
YPbPr
```
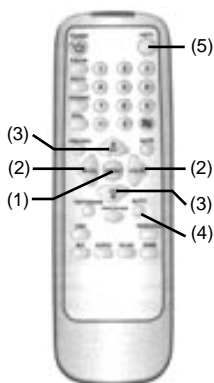
If your selected terminal has no input signal source, the screen will display *"NO SIGNAL"*.

```
NO SIGNAL
```

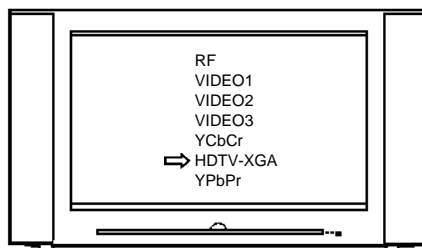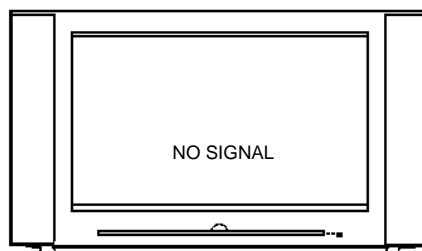At this time please press **MENU** button (1) to call up **HDTV SOURCE** menu, press **CH▲** or **CH▼** button (3) to select the other terminal which has signal input and press **MENU** button (1) to confirm. Then you can enjoy the program

```
HDTV SOURCE
⇒ ○ XGA INPUT
  ○ YPbPr INPUT
```
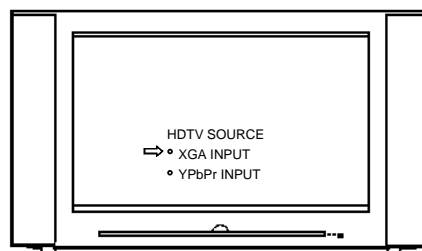
If both the XGA and YPbPr have signal source and you want to switch from the current signal source to the other signal source (for example, you are watching XGA program and then you want to watch program from YPbPr), please press **MENU** button (1) to call up the main menu, press **CH▲** or **CH▼** button (3) to select ⊏⊐(XGA⟺ YPbPr), then press **MENU** button (1) the signal source is switched over.

Moreover, there is only one group of audio input terminals in HDTV mode, therefore you can only select to connect either XGA or YPbPr audio terminals.

14. OSD menu introduction

Press MENU button

The selected icon's colour will change and twinkle

SCREEN ADJUST
PUSH TO MENU

Fh: 3 5. 1 KHz   Fv: 5 6. 1 Hz

Press MENU button to enter
into SCREEN ADJUST menu

Screen Adjust Menu

V-SIZE
120

Fh: 3 5. 1 KHz   Fv: 5 6. 1 Hz
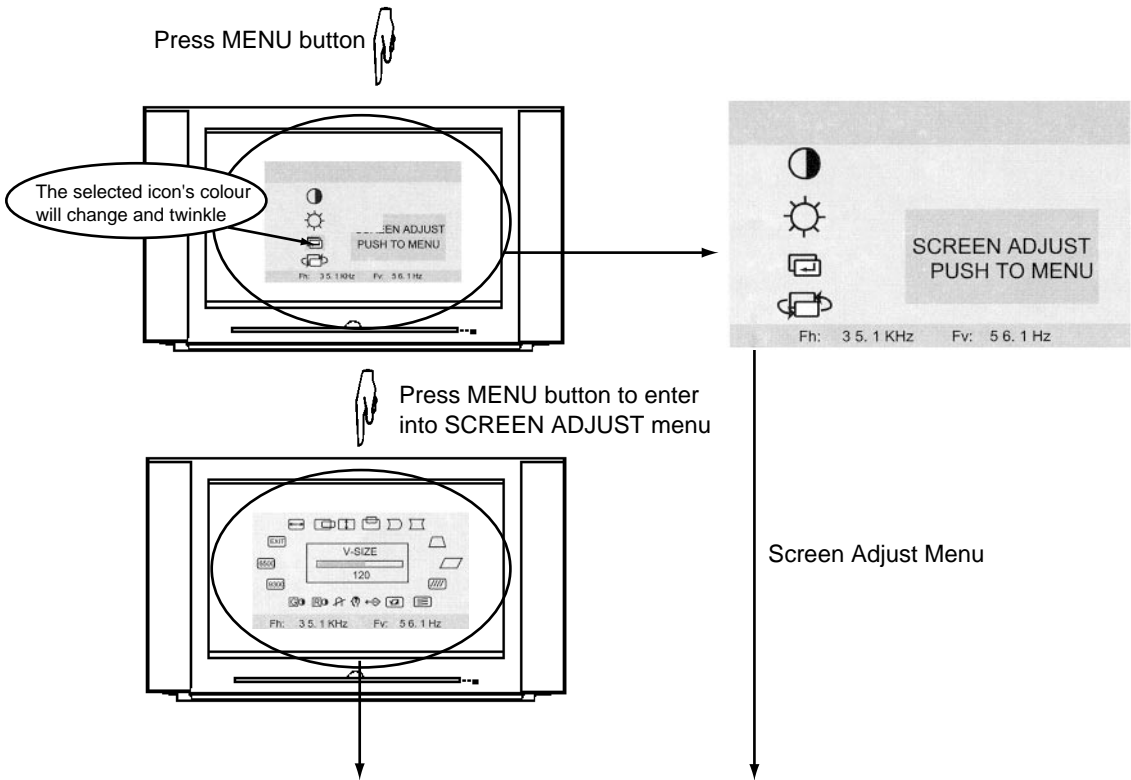
H-PHASE   V-PHASE   PINCUSHION

H-SIZE   V-SIZE   PIN-BALANCE   TRAPEZOID

EXIT
EXIT

6500
6500K

9300
9300K

* * * * * (SELECTED ITEM NAME)

(ADJUSTMENT ITEM'S RANGE/POSITION)

PARALLELOGRAM

H-MOIRE

V-MOIRE

ENGLISH → 中文

DEGAUSS   RECALL ROTATION

14.1 Menu introduction

CONTRAST	◑	Adjust the picture contrast.
BRIGHTNESS	☼	Adjust the picture brightness.
H-SIZE	⊟	Adjust the picture s horizontal size.
H-PHASE	⊡	Adjust the horizontal position of the picture.
V-SIZE	⊡	Adjust the pictures vertical size.
V-PHASE	⊟	Adjust the vertical position of the picture.
PI N-BALANCE	Ɗ	Balance pincushion distortion.
PINCUSHION	⊐	Pincushion correction.
TRAPEZOID	◁	Correct the trapezoid distortion.
PARALLELOGRAM	▱	Adjust the angle between horizontal and vertical
H-MOIRE	▨	Eliminate horizontal moire.
V-MOIRE	▤	Eliminate vertical moire.
ROTATION	▨	Rotate the current picture.
RECALL	↔	To restore to original factory preset mode.
ENGLISH/CHINESE	♀	English/Chinese menu on-screen display language selection.
DEGAUSS	ℱ	Manually degauss the set
R	R◑	Adjust white balance R at current colour temperature (red adjustment).
G	G◑	Adjust white balance G at current colour temperature (green adjustment).
9300K	9300	Restore the current picture s colour temperature to 9300K.
6500K	6500	Restore the current pictures colour temperature to 6500K.
EXIT	EXIT	Exit the current OSD and store all the current adjusted parameters.

Notes:
When the HD monitor gets signal from external equipment (such as Set top box, computer, DVD, etc.) through XGA interface or YPbPr terminals, because of signal difference, the screen colour may not be in optimum state, this time, you can adjust G◑ and R◑ item in the SCREEN ADJUST menu until you get satisfying colour.

Using 6500 or 9300 can restore the value of G◑ and R◑ to default setting.

14.2 Contrast, Brightness adjustment
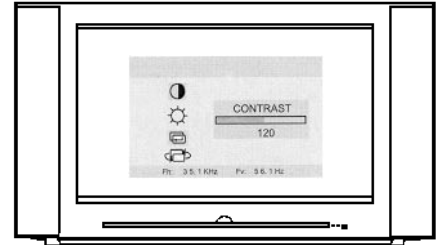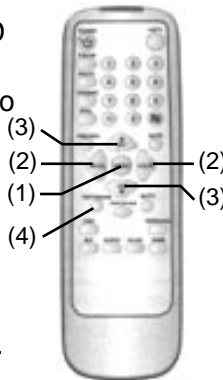
1) Press **MENU** button (1) to call up the OSD main menu.
2) Press **CH▲** button (3) or **CH▼** button (3) to move the cursor upward or downward and select ◑(Contrast) or ☼(Brightness). (The colour of the selected icon will change and glitter).
3) Press **MENU** (1) to enter into the submenu.
4) Press **CH▲** or **CH▼** (3) to adjust the level.
5) Press **MENU** (1) to exit from the adjustment of current item.

(3)
(2)
(1)
(4)
(2)
(3)

Repeat the above 2 - 5 steps if you want to continue the adjustment. After completion of the adjustment, press **TEXT/IMAGE** button (4) to exit the main menu, or you can wait for some time and the menu will automatically disappear.

14.3 To switch between text mode and image mode

1) Press **TEXT/IMAGE** button (4) can switch between **Text** mode and **Image** mode. In either mode, the contrast and brightness are different.
2) Press **MENU** button (1) to exit. Or you can wait for some time and the OSD will automatically disappear.
3) If you are not satisfied with current status' contrast and brightness, you can adjust them in the main menu.

14.4 Volume adjustment

1) Press ◀ **VOL** or **VOL** ▶ button (2) to adjust the volume.
2) Press **TEXT/IMAGE** button (4) to exit. Or you can wait for some time and the OSD will automatically disappear.
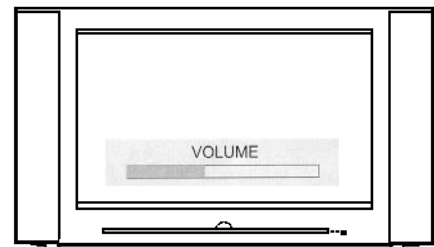
14.5 Screen adjustment

The screen adjustment includes H-SIZE, H-PHASE, V-SIZE, V-PHASE, PIN-BALANCE, PINCUSHION, TRAPEZOID, PARALLELOGRAM. H-MOIRE, V-MOIRE, ROTATION, etc.

1. Press **MENU** button to call up the main menu, press **CH▲** or **CH▼** button to move the cursor to **SCREEN ADJUST** icon.
2. Press **MENU** button again to enter into **SCREEN ADJUST** sub-menu.
3. Press **CH▲** or **CH▼** button to move the cursor and select your wanted menu item.
4. Press **MENU** button to confirm the choice. If the value of the item is adjustable, go to the next step, otherwise go to above 3 step after completion of switch operation if you want to continue the adjustment.
5. Press **CH▲** or **CH▼** button to adjust the level until you are satisfied.
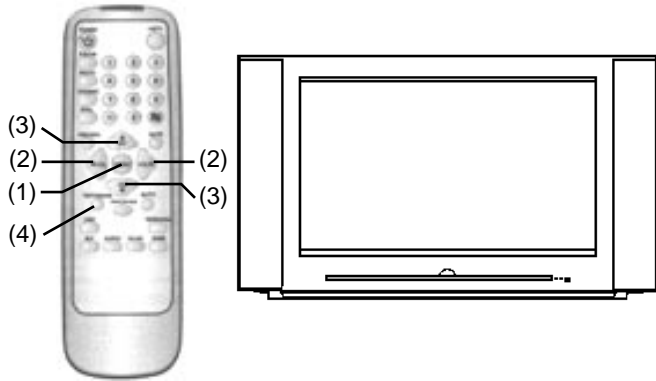6. Press **MENU** button to exit this item's adjustment.
7. Repeat the above 3-6 steps to adjust other items. After completion of adjustment, select **EXIT** icon or press TEXT/IMAGE button to exit the **SCREEN ADJUST** menu. Or you can wait for some time and the OSD will automatically disappear.

14.6 Function menu item's selection

RECALL: It's used to restore parameters of the current display mode to factory default setting.

EXIT: It's used to exit the current OSD menu.

DEGAUSS: It's used to activate the degaussing circuit. (To conduct the next degauss operation you should wait for 10-20 minutes).

6500: It's used to set the state of colour temperature which suits for professional departments such as television and broadcast station.

9300: It's used to set the state of colour temperature which suits for general user.

14.7 Audio adjustment

To adjust Bass, Treble, Surround sound, Balance, please switch to RF mode and operate them (please refer to **Sound adjustment** on page 23 and 24). The audio effects you get in RF mode also function in HDTV mode.

15. Display mode setting

In factory the set has been set with multi display modes which are frequently-used at present. (See **17. Specifications** on page 40). With the development of digital processing technology, in the future there are external equipment with different display modes. If user discovers the input signal's display mode is different, while the horizontal and vertical frequency accords with the requirement of the set, the set can also support this display mode. It can support and store up to 8 new display modes. User is only required to adjust this mode's display parameters to satisfying status according to **Operation in HDTV mode** and the adjusted parameters will be stored into the MEMORY automatically even if you turn off the set.

Displaying pattern

Item No.	Displaying pattern	H-frequency V-frequency	Adoptive Standard	Aspect ratio
1	720 x 600 I	31.25KHz/100Hz	PAL 100Hz	4:3/16:9
2	720 x 600 P	31.25KHz/50Hz	PAL progressive	4:3/16:9
3	720 x 500 I	31.25KHz/120Hz	NTSC 120Hz	4:3/16:9
4	720 x 500 P	31.25KHz/60Hz	NTSC progressive	4:3/16:9
5	1920 x 1080 I	28.125KHz/50Hz	China HDTV interlace	16:9
6	1920 x 1080 I	33.75KHz/60Hz	American HDTV standard interlace	16:9
7	1280 x 720 P	45KHz/60Hz	American HDTV standard progressive	16:9
8	640 x 480 P	31.5KHZ/60Hz	PC VGA	4:3
9	640 x 480 P	37.8KHz/75Hz	PC VGA	4:3
10	720 x 400 P	31.5KHZ/70Hz	PC VGA	4:3
11	800 x 600 P	37.88KHZ/60HZ	PC SVGA	4:3
12	800 x 600 P	46.8KHz/75Hz	PC SVGA	4:3
13	1024 x 768 P	48.4KHz/60Hz	PC XGA	4:3

16. Troubleshooting Guide

Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptoms	Check the following items
The screen has no content, the power indicator is not lit up.	Be sure the power cord is plugged in.
The screen has no content, the power indicator is red.	The set is in stand-by mode. Press the power button on the remote controller to turn on the set.
Poor colour, poor tint	Contrast, colour, tint are not correctly adjusted.
Stripes appear on the screen	Possible interference of electronic interference from another TV set, a computer, an electronics game machine, a broadcast station, etc.
Spots appear on the screen	Possible interferences of automobiles, motorcycle, trolley bus, neon lamps, etc.
Double images or "ghosts"	This may be caused by reflections from nearly mountains or buildings. Check the antenna direction.
Snowy picture	It is possible that the aerial "lead-in" is damaged or comes off. Check the antenna direction.
The remote controller does not work	The batteries may be worn out. The batteries may be installed with their polarity reversed.
TV cabinet creaks	Even if the picture or sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.
Magnetisation phenomenon, colour spots in the screen.	Using the remote controller to turn off the set or moving the set around may result in magnetisation phenomenon. When magnetisation appears, please enter into the OPTION menu and select DEGAUSS item to degauss the set (recommended). Or by switching off the set and waiting for 10 minutes before switching on again can eliminate it.

17. Specifications

● **Monitor**

Display field	Min. 659 x 370 (unit: mm)
Horizontal frequency	28KHz - 48KHz
Colour temperature	6500^0K/9300^0K
RGB bandwidth	30MHz
Video adaptor card	VGA, S-VGA, VESA VGA, XGA
XGA cable	15-pin D-Sub type (Standard VGA cable)

● **TV**

TV system	PAL/SECAM/NTSC
CATV	Hyperband
Search	Auto search/Manual search
Picture	5D picture improver
S-video/Video/Audio input	Three groups
RF IN, DVD IN	One group respectively
AV OUT	One group
Additional functions	ON/OFF timer, AUTO-POWER-OFF, No-signal blue background display, games, etc.

● **The whole unit**

Power supply	AC 240V, 50Hz
Power consumption	230W
CRT	76cm
Sound output	8W x 2
External control mode	I^2C bus control
Surround sound	Yes
Full function remote control	Yes
Dimensions	968 (W) x 570 (D) x 564 (H) mm
Weight	66 kg
Stored Temperature	-10^0C~50^0C
Working Temperature	0^0C~40^0C
Accessories	XGA D15 signal cable x 1, Remote controller x 1, Power cord x 1, RF cable x 1, Instruction manual x 1

(!) **Note**: Design and specifications are subject to change without notice.

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